The Journal of the American Medical Association

Published Under the Auspices of the Board of Trustees

VOL. LXIV, No. 26 CHICAGO, ILLINOIS JUNE 26, 1915

WORK OF THE AMERICAN MEDICAL ASSOCIATION *

WILLIAM L. RODMAN, M.D.
President of the American Medical Association

PHILADELPHIA

In assuming the presidency of the largest and most important medical organization in the world, and at the time of its greatest achievements, I am overcome with humility and a consciousness of my own limitations. Profoundly grateful for so signal and unmerited an honor, I shall ask that the same partiality which placed your standard in my hands strengthen and support me until I shall have transferred it, unsullied and undimmed, into the hands of my successor.

With your help I may succeed; without it, failure is certain; therefore, grant it me in unstinted measure.

As the splendid work of the Association, carried on by its officers and several councils, has not been reveiwed by my immediate predecessors, it would seem eminently fitting that I should, at this time, attempt a retrospect of some of its most noteworthy achievements, and incidentally point out how, with your cooperation, other equally desirable results may reasonably and certainly be attained.

THE AMERICAN COLLEGE OF SURGEONS

As the American Medical Association always stands for altruism and noble endeavor, it is my first duty, as well as my great pleasure, to congratulate most heartily the officers, board of regents and fellows upon the auspicious beginning of the American College of Surgeons, its achievements and its splendid aspirations. It has already, in its brief existence, accomplished much in elevating the general tone and level of American surgery, and met all reasonable expectations of its sponsors. The college was organized to fill a distinct need, and its aims and purposes were well presented by its president, Dr. J. M. T. Finney, at the inaugural meeting in Chicago, in November, 1913, in an address which was notable for its ability, sincerity and lofty character. With a rare and keen discrimination, equaled only by the courage shown, he pointed out the weaknesses in our armor, and the professional obligation of all to overcome them. I cannot do better than quote some of his forceful words, and, further, to express the hope that every member of the profession, in or out of the college, will read and read again the entire address:

> The aim of this new organization and the reason for its existence lie in its disinterested and unselfish efforts to elevate the standards of the profession, moral as well as intellectual, to foster research, to educate the public up to the idea that there is a difference between the honest, conscientious, well-trained surgeon and the purely commercial operator, the charlatan and the quack; furthermore, that the term "surgeon" means something more than a suave manner, a glib tongue, a private hospital, a press agent, and the all too easily acquired diploma. The standardization of surgery is absolutely essential to guard the public against such as these, as well as to preserve the honor of the guild itself. So far as the public is concerned, it is necessary to protect it from the wolves in sheep's clothing, from those who would prostitute their high office for the purpose of gain; from the ignorant and the untrained; from those who by reason of the lack of surgical judgment and skill are incompetent. That such are present in considerable numbers in our profession, and that they continue to ply their nefarious trade in every community of any size, with reckless disregard of the consequences, unfortunately cannot be denied. Are we to sit idly by while the fair name and fame of our profession are being dishonored and defiled? Is there nothing that we can do to protect the public and ourselves? Our presence here this evening is an answer to these questions. The American College of Surgeons has been called into being as an active, vigorous, virile protest upon the part of the profession itself against this unhappy state of affairs.[1]

No one who impartially reviews the work of the college, conducted as it has been by officers and a board of regents of the highest personal and professional standing, can withhold from them a large measure of praise for unselfishness, devotion to the cause, and a very evident intention to be true to the highest ideals of the profession.

In every community men are operating who have no right to take human life into their hands. This does not apply to the general practitioner who, in an emergency, and to the best of his ability, operates in an attempt to save life, but to those who, for gain, undertake that which should be done only by the skilful surgeon. Surgery is a special science, extrahazardous in its nature, and hence the public has a right to demand of the surgeon the very highest physical, mental and moral equipment.

The positive stand the college has taken on fee-splitting alone more than justifies its existence. This evil has become intolerable, and a wave of protest is rising throughout the land which should, and we believe will, overwhelm the offenders. Reform is bound to come, and the public will surely take the initiative if we do not. In some states the legislatures have already enacted laws constituting fee-splitting a crime. But it is most undesirable that our problems and shame should be corrected by legislators who imperfectly understand the real conditions. Let us at once apply the axe to the root, make this nefarious

* President's address before the American Medical Association at the Sixty-Sixth Annual Session, San Francisco, June 22, 1915.

1. Finney, J. M. T.: American College of Surgeons, presidential address, delivered at the first convocation of the college, Chicago, Nov. 13, 1913.

practice impossible, drive from the surgical temple those who defile it, and let their names and methods be anathema maranatha. If there be those within the ranks of the college who are at this time tainted with commercialism, it was not so intended by the board of regents, and they will make short shrift of any one caught *flagrante delicto*. I hold no brief for the board of regents, but am acquainted with every one of its members, and am satisfied that the honor of American surgery is safe in their hands. Undoubtedly mistakes have been, and others will be, made. But shall we expect human prescience to do that which Christ Himself did not do? Did He not in selecting His disciples choose Thomas who doubted, Peter who denied, and Judas who betrayed Him?

COUNCIL ON HEALTH AND PUBLIC INSTRUCTION

The Council on Health and Public Instruction continues to investigate health conditions, to educate the public and to foster a sentiment that will force the enactment of health laws. We are better prepared today to prevent disease and to save life than ever before; but we need the confidence and intelligent cooperation of the people before the work can be satisfactorily accomplished.

The Council is in touch with the newspapers, and since the Press Bureau was established three years ago, has issued 164 bulletins for publication in 4,900 newspapers. These bulletins are made up of extracts and abstracts of editorials and original articles from THE JOURNAL, with occasional articles on popular health topics, contributed by prominent members of our Association, but published without signatures.

Popular write-ups on medical subjects are too often but garbled statements of medical facts. Yet the daily press wishes, and has a right, to publish what the people want to read. In Kings County, N. Y., a publicity committee has cooperated with newspaper editors in working out a plan for getting truthful reports of interviews on medical topics. This scheme has worked so admirably that the Judicial Council recommended to the House of Delegates the formation of such a publicity committee in every county medical society in the country.

Another plan of the Council is to unite all of the public health organizations into a national league. With this in view, it has suggested that the various public health organizations hold their 1916 annual meetings at the same time and place. Special societies, such as those for the study of tuberculosis, cancer, infant mortality, etc., might be made sections of this national league, which would be a great advantage to them.

The Bureau of Literature has circulated pamphlets on health topics, notably on cancer, which at this time is being given great attention, not only by our Association, but by the American Society for the Control of Cancer, by a cancer committee appointed by the Clinical Congress of Surgeons of North America, by the Cancer Commission of Harvard University, and by state and municipal commissions as well, all working to the same end, namely, the enlightenment of the public as to the early symptoms of cancer, the necessity for prompt surgical intervention and the danger of running after false gods.

Several speakers connected with this bureau have told me of the large and interested lay audiences they have addressed in different parts of the country, and I myself have had a similar experience in the states of Maryland, Virginia, North Carolina, Ohio, Missouri Illinois, Minnesota, New Jersey and Pennsylvania. I have also been assured by local physicians in the cities and towns visited by such lecturers on cancer that the results have been most encouraging, and in many instances have led to early operation where, without such knowledge, the patients might possibly not have been operated on at all. I believe that the Association has done, and can do, no better work. In addition to the agencies already named, the federal government, through the director of the census, announces a new departure which should be welcomed. When the 1914 returns come in from the United States registration area, they will be made the subject of a special monograph on cancer. The deaths will be classified under some thirty headings, instead of seven as heretofore, and according to the region or organ affected, which is the arrangement followed in the standard reports of the registrar general of England and Wales. While not germane to the cancer question, it is of interest to note that the government Public Health Service also has undertaken a new work in beginning a sanitary investigation of navigable waters, thus far confined to the Potomac, Ohio, the shores of the Atlantic and the Gulf. This promises to be of vast interest and benefit to the entire country.

Many committees have done admirable work, notably the Committee on Resuscitation from Electric Shock, who have issued a chart and booklet for use in electric lighting plants which is considered authoritative all over the world; also the Committee on Resuscitation from Mine Gases, a report of whose work has been issued by the federal government.

The Joint Committee with the National Educational Association has been engaged in a fruitful study of health problems in education which will give an impetus to sanitation in rural schools, hitherto much neglected.

The activities of the Medicolegal Bureau are still in their incipiency, and it must be admitted that on the question of public health legislation the profession is still at variance. Efforts have been made, for nearly half a century, to secure the passage of laws regulating the practice of medicine in the different states, yet we fail to agree on the most essential requirements. The Association is, however, now making a more scientific study of medicolegal questions, and has issued two pamphlets dealing with this phase of its work. Nothing, however, could be more unwise or undesirable than hasty or ill-considered legislative experiments.

PROPAGANDA DEPARTMENT AND THE COUNCIL ON PHARMACY AND CHEMISTRY

The Propaganda Department reports an increasing public interest in the matter of "patent medicine" frauds, and has issued more than thirty educational posters as well as lantern slides for popular lectures on this subject. Boards of health, clubs and newspapers are alike active in disseminating information to the public.

The aims of the Council and what it has accomplished have made an impression upon the medical profession of both England and Germany, and in the latter country an association with similar functions has been formed.

Naturally the work of the Council has aroused much antagonism on the part of pharmaceutic manufacturers and those journals which make advertising a specialty, and some drug firms have threatened the Council with

legal proceedings if it published anything concerning their products. Others have already begun legal action which is being vigorously resisted by the Board of Trustees. But it is gratifying to note that other firms whose preparations are really new and of therapeutic value have voluntarily submitted them to the Council for examination and endorsement. Drugs are accepted only after most careful investigation.

The Association now has in its laboratory three chemists who give their whole time to the analysis of medicines. The Council has attempted to distinguish between medicines good and bad. In addition to New and Nonofficial Remedies describing proprietary and new drugs which are deemed worth the consideration of physicians, it has published "Useful Drugs," which contains the really valuable drugs in our materia medica. This a number of the best schools now use as a textbook. Its labors, too, have materially influenced the teaching of materia medica and therapeutics. It remains, however, for the profession to set its ban on all proprietary medicines, if the only information concerning them comes from those who manufacture and sell them.

A few newspapers submit their medical advertisements to the Propaganda Department for its opinion before publishing them. Would that the so-called independent medical journals might follow their example, and seek an opinion before advertising outrageously fraudulent nostrums in their columns.

The medical profession should realize the inconsistency of its Council working to eliminate these products and some of its journals doing their best to perpetuate them. It is absurd for us to fight self-medication on the one hand and encourage it on the other. Can we not by concerted action either stop these obnoxious advertisements or refuse to countenance the journals that carry them?

64
15

COUNCIL ON MEDICAL EDUCATION

The Council on Medical Education was established in 1904. Conditions demanded its creation, as other agencies had proved inadequate to meet a situation which had become intolerable. The moral influence of this great Association was necessary to quicken and give vital force to what had long been good intentions or ambitious dreams on the part of other and smaller organizations.

Its work has more than justified its existence; for it has, in a decade, accomplished more in the way of regulating and elevating medical education than had been done in a century; and it has been able to do this without the slightest legal power, but solely by reason of the righteousness of its cause, the high character of its members, and the wide publicity given its recommendations and acts in a journal which goes approximately to 70,000 medical men weekly. No institution could resist, much less defy, the official acts of such a body.

The profession has given the Council most cordial support, and it cannot be said that schools have been irresponsive. Indeed, when one considers the chaotic state of medical education in the United States in 1904, and then views the situation as it is today, there is cause for felicitation all around — to the Council, to the profession of the country, and to medical institutions — for so happy a consummation could not have been reached without the hearty cooperation of all.

Truth to tell, there are outside influences which have been most helpful in this beneficent work, and to them all due credit should be given ungrudgingly. The Association of American Medical Colleges, the Federation of State Medical Boards, the American Academy of Medicine and the Carnegie Foundation have at all times cooperated cheerfully, zealously and effectively. But, after all, is it not to the greater credit of the Council that it has been able, largely through the tactfulness and diplomacy of its chairman, to make use of and coordinate so many forces for good, which, while working separately, as they hitherto had done, had oftentimes, though inadvertently, pulled apart instead of together? No one who has attended the annual meetings of the Council, Federation of State Medical Boards, and College Association, held on consecutive days, in the same hall, the members of each body having the privilege of debate in all, could fail to be impressed with the admirable team work thus far displayed. To have united these bodies for effectiveness called for the ability of a wise general, and to weld and hold them together may require the genius of a field marshal.

If mutuality is to be the watchword of all, the structure must, and will be enduring; but if one body insists upon conditions and standards which do not commend themselves as both reasonable and attainable throughout the whole country, there is danger of retrogression. We go either forward or backward; the former is usually difficult, requires time, and those who are to be successful must keep ever in mind the admonition, "They stumble that run fast."

When the Council was organized in 1904, it published, as an ideal standard to which it would gradually approach, the following:

(*a*) Preliminary education sufficient to enable the candidate to enter our recognized universities, the passing upon such qualifications by the state authorities.

(*b*) A five-year medical course, the first year of which should be devoted to physics, chemistry and biology, and such arrangements should be made that this year could be taken either in a school of liberal arts or in the medical school. Of the four years in pure medical work, the first two should be spent in laboratories of anatomy, physiology, pathology, pharmacology, etc., and the last two in close contact with patients in dispensaries and hospitals in the study of medicine, surgery, obstetrics and the specialties.

(*c*) A sixth year as an intern in a hospital or dispensary should then complete the medical course.

This goal has been reached, at least on paper; the ranks have been thinned, as more than a third of the schools are now *hors du combat*, and it is expedient to mark time for a while, and give those institutions which have approached the firing line at double-quick speed a chance to catch their breath.

There are many reasons why this should be done. In the first place, the standard is now as high as it should be for *all* of the schools of the entire country. An irreducible minimum has been reached, and should be honestly enforced — that is, as soon as it can be. There is, of course, no limit to a maximum that any highly endowed and exceptionally circumstanced institution may adopt for itself.

Second, the present standard of the Council (four years in an accredited high school, one year in the basic sciences of chemistry, physics and biology) is on a parity with that of Canada and Great Britain, and with European countries. What reason have we to establish a cultural standard in medicine higher than that imposed by older countries?

Third, medicine is not a thing apart, but only a link in the educational chain, and should be based upon and

correlated with the secondary schools, colleges and universities of the country. Professional education, in medicine at least, has advanced much faster than our general educational system has done. Would it not be logical, henceforth, to direct our efforts toward stimulating progress in secondary education until it shall have caught up?

To make my meaning clear: We demand a four-year high school diploma, and, in addition, one year in biology, chemistry and physics of every matriculant in medicine; and this, notwithstanding the fact that many of the states are poorly equipped with *good* four-year public high schools, and that some, though having recently acquired them, are as yet without graduates. But the very states without such secondary schools, upon which we depend for the necessary cultural knowledge as a prerequisite to the study of medicine, have from one to three medical schools drawing nearly all of their students from their own state. No one knows this better, nor has any one expressed it more clearly, than did Dr. Pritchett when he said:

> To enforce honestly a four-year high school requirement would call for great firmness and self-denial on the part of the medical schools [in the South]; but to require on top of this a year of college including the sciences and a modern language is to inaugurate anew a régime of compromises and makeshifts, and to substitute an imitation of education for the genuine thing.

Furthermore, the second requirement, one year in the sciences, is no better, if, indeed, so well complied with. The high schools, colleges and universities by no means agree as to the character, scope and extent of such course, and when it should be given. At this moment their differences could not be greater or confusion worse confounded.

Fourth, it is paramount that a man complete his professional training and begin to practice by the time he reaches 25. This must appeal to every one who views the situation from a practical standpoint. To be a nonproducer, a dependent upon some one else, at an age when men can be both productive and independent, is abhorrent to the American mind, as we are sensitive upon this point and a people of action rather than doctrinaires. Therefore, the Council should keep ever before it this essential fact, and other less important requirements should weigh as nothing against it. Furthermore, there is a way to bring this about without in any way curtailing either the secondary or professional training one must have. The fault at this time is unquestionably with the secondary, and not the professional end of it. We have agreed that a course in biology, chemistry and physics is a prerequisite to the study of medicine, but we do not agree at all as to where, how and when such a course should be given. At this time it is given in the high schools, in the colleges and in the universities, and, judging from the very recent report of the committee appointed by the Association of American Medical Colleges to investigate the subject, is taught as indifferently in one place as another.

In order to meet this condition, medical schools not connected with universities, and some that are, have been compelled to take over this work so that it may be properly correlated with medicine. It should be given, however, by a separate and distinct corps of teachers, and entirely apart from the work of medical students. This system, while educationally unsound, as we must admit, became a necessity because of the unsatisfactory courses given by the various secondary schools, colleges and universities throughout the country, and, moreover, the seeming unwillingness on the part of their representatives to modify their courses in any way, either for the convenience or benefit of those intending to study medicine subsequently. And yet, these same presidents, deans and other representatives of colleges and universities seriously advise us to add another year of university work, so that sufficient science shall have been taught the prospective medical student. Why should such a demand be made only upon American medical students? No other country makes it; why then should we? To spend an unnecessary year of one's life in obtaining cultural knowledge that is, to say the most, of questionable and uncertain value to him in his profession, is worse than a crime — it is a blunder. The literary colleges must at least improve their laboratories and tuition, so far as the sciences are concerned, before they can reasonably ask that one relatively fruitless year be passed within their walls; to double the dose would certainly be a serious handicap to the student and might be fatal to our educational system. The committee appointed by the Association of American Medical Colleges has this to say in its report:

> We are forced to the conclusion that the literary colleges over the country are not giving the science subjects demanded in our schedule in their first year's curricula, and, apparently, in many instances are not giving biology and physics as regular work for a bachelor's degree.[2]

If we add to this testimony that of President Lowell of Harvard and others who have read papers at the several conferences referred to, it is perfectly clear that there is no uniformity of practice or thought among the officials of colleges and universities, so far as the scientific course is concerned. Therefore, for the present at least, it must be taught largely by the medical schools, as has long been the custom in England, where the results are most satisfactory; or there must be as has been suggested by distinguished educators, a rearrangement of the curricula of high schools, so that they will embrace a course in the sciences which will be acceptable to medical schools. This, I believe, is the very best solution of the problem, as there is no good reason why a first-class high school should not give a boy such instruction whether he intends to study medicine or not. Many of the high schools do this now, and all might be induced to make the necessary change reasonably soon. In a recent conversation with the principal of the Central High School of Philadelphia and the head of the department of science, both expressed the opinion that boys leaving the high school should be fully prepared to begin the study of medicine. Both men are entirely familiar with our modern requirements, as they have kept in close touch with the situation at all times. Professor Keller, for many years head of the science department, has been kind enough to give me, in addition, his opinion, in a letter from which I am authorized to quote. He says:

> We are satisfied that the instruction now given in our scientific course fully meets the present actual requirements for entrance to the medical schools. The work includes a comprehensive course of instruction in science, including biology, zoology, physiology, physics and chemistry, as well as in two languages, either Latin and German, or French and German.

2. The members of the committee making this report are all connected with universities.

We can see no reason why the present requirements in biology, physics and chemistry should not be covered by the instruction given in any first-class high school, such as we have in the larger cities.

The reasons for giving this instruction in high schools are many. First, boys from 15 to 19 are at the very time of life when they are more interested in such a course than they would be later on at college or university, when they will, perhaps, have chosen their future vocations and wish to prepare for them specifically. Second, education is naturally a function of the state, and this is being realized more and more all the time. One has only to consult the reports of the commissioner of education at Washington to be convinced of the marvelous changes for the better wrought in a decade. In 1901 there were 8,210 secondary schools with 649,951 students, whereas in 1911 there were 13,268 such schools with 1,246,827 students.

Mr. Claxton, commissioner of education, suggests that the twelve years of elementary and high school, now grouped into eight years of primary and grammar school and four years of high school, be rearranged, making the course six years in each. Taking the seventh and eighth years as part of the high school makes it easy to begin departmental teaching in these grades, and to adopt the methods of teaching and discipline to the changing demands of the children. It also makes it possible to begin vocational education two years earlier than is now the case, which all must think desirable. Virtually nothing is lost in the primary school by such an arrangement, as teachers are generally agreed that the time spent in the seventh and eighth grades is nearly always, under the present plan, a period of marking time.

High schools change with surprising swiftness, even in the older states. What was last year a registered three-year high school in New York often becomes this year a registered four-year high school. During the past decade a steady stiffening of the requirements for admission has occurred. Only the better high schools have been able to keep pace with these changes and to meet fully these requirements. The whole system of secondary education of a state may undergo in half a decade a thorough reorganization and uplift; the State of Virginia offers an example.[3]

I quote again from Commissioner Claxton:[4]

Not only must the courses of instruction in all public schools be varied and differentiated to meet the varying needs of all the children of all the people, they must also be so adjusted as to give the information and training necessary for intelligent and successful employment in all standard occupations. Whatever is needed to be done for the welfare of society in city or state should be taught in the public schools, unless it can be taught elsewhere better and more economically.

Whatever may be the solution of the problem of vocational education, it is quite clear that two things should be held firmly in mind: (1) that all education is one thing and not many, and that vocational schools are an integral part of our common school system; that whatever may be the trade by which one makes a living, humanity and citizenship, with all their requirements, are common to all, and must be considered in the education of all individuals and classes.

In the state of Pennsylvania there were but 193 four-year high schools in 1904, whereas there are 353 reported in 1914 (of these, forty-three are in cities and 310 in counties). There are still more schools giving three and two year courses, it is true (383 of the former and 134 of the latter); but if the rapid evolution of the past decade continues, there will very soon be more high schools giving a four-year course than schools of lower grade.

Now, while high schools are undergoing such evolutionary changes, is the propitious time to make an appeal to them to arrange their curricula so as to include a liberal science course. This appeal should have additional weight because they are public institutions maintained for the advantage of all; whereas colleges and universities, being largely private corporations, are managed to suit themselves and their officers, and would naturally be less responsive to outside requests or influences. The advantages would be palpable and direct, mutually beneficial to state, municipality, secondary, higher and professional education. The state and municipality owe, and can perform, no higher duty than to furnish youths with the very best educational advantages, as all that they give in this way is thrice repaid in a quickened, higher and better citizenship. Perhaps the very best and most wholesome law which a state can enact is that making education compulsory, thereby, to a certain extent, taking the control of a child from its parents. If this right is both assumed and exercised, it should be carried out conscientiously, wisely and thoroughly, and the states, domestic and foreign, that have measured up to this obligation have secured results which have placed them far and away ahead of those which have not. In no other way can we explain the satisfactory state of medical, as well as other branches of professional education in Germany and France, for instance. There professional education is considered, as it should be, a part of a general educational system, and hence is built upon a solid foundation. The thoroughness of the German secondary school system is most admirable, and should be imitated by other countries. The French, however, have better solved the question of premedical education, which is, at the present time, the most important question awaiting solution in America. After leaving the lycée with a baccalaureate, one must, before beginning the study of medicine, take a scientific course for one year, which includes physics, chemistry and natural history. It is designated as the P. C. N. course. It is given under academic auspices, and not by the medical schools—a practice educationally sound beyond question—but the course is objected to by the teachers of medicine as being too general in its scope and not sufficiently correlated with medicine. It is, nevertheless, thorough, embracing lectures and demonstrations in the morning, and active, practical work in well-equipped laboratories in the afternoon.

In England the same distrust of college and secondary school training in the fundamental sciences, upon which medicine rests, has always been shown, and to such an extent that the Conjoint Board of London, representing the Royal Colleges of Medicine and Surgery, refuses to recognize and give full credit for any such course taken outside of a medical school. Subject, but not time, credit is given. A student from such institutions must spend at least six months in the first year of a medical school reviewing what he has already had, and going further in the basic sciences before he can enter the second year of a five-year course in medicine.[5] This action is made necessary by the rudimentary state of public, or what they call board school, education in England, and the unevenness of scientific instruction

3. Babcock, Kendric Charles: Bull. 29, U. S. Bureau of Education, 1913.
4. Report of Commissioner of Education.
5. Frederick G. Hallett, Secretary, Conjoint Board, London.

elsewhere than in medical colleges. It is thought to be the best possible solution of the problem for that country, at this time, by an able, experienced and impartial teacher who is thoroughly acquainted with educational matters throughout the world, and who is, moreover, an enthusiastic advocate of the French system wherever it is practicable.[6] So, even if it be maintained that many of the high schools will not, or cannot, give an entirely satisfactory course in the sciences, their students beginning medicine can be given subject but not time credit, as is done in England, by our medical schools. I am of opinion that the English plan, which requires that at least six months of the science course be repeated, has much to recommend it and gives better practical results than the French system. When a boy takes his scientific course in a medical school, he is already pursuing what is to be his life work, he associates with medical students, occasionally attends, and is, perhaps, inspired by, a clinic, and his work of the first year is properly correlated with that of the second; moreover, and this is of the utmost importance, he is away from the many distractions inseparable from the first year of college life, when it is not expected that he take matters too seriously, but drift with the current.

In the medical school it is intensive study; in the college extensive study. I believe intensive work is better for the professional man, whereas a more diversified and widely distributed course is better for the man of letters.

The suggestion of Dr. Pritchett and Mr. Flexner that the secondary schools of Germany should include a satisfactory course in the sciences is certainly, I think, as applicable to our public schools.[7] Commissioner Claxton has shown it to be not only desirable, but also feasible in the United States, where changes are being made so rapidly in our secondary schools. Therefore, the present is the opportune time to bridge the gap between the secondary and vocational school by bettering the former and permitting a youth to begin medicine, law, engineering or other vocation before he is 20. It will then be quite possible for him to have graduated from a medical school and to have had a year's service in a hospital by the time he is 25. Then, and then only, in my opinion, will we get the type of men for whom there is a demand in the profession. To require, as medical schools do today, that part of one's preliminary education shall be in a high school, where there is confessedly no average standard for all of the states, and another part in a college or university where no greater uniformity is to be found, is, to say the least, an anachronism. We are a young nation with no hampering restrictions and traditions to fetter and hold us back when the very life of our educational system is at stake. Either the high school system should be changed, as urged by Commissioner Claxton, so that the four-year course will embrace all of the English, mathematics, sciences and languages necessary for professional enrolment, or paper credentials, which are now of relatively little value, should be given up altogether, and men accepted as medical students only after passing the necessary entrance examination.

Practically all medical teachers agree that the greatest defect with students is, and always has been, the lack of an adequate knowledge of English. Mathematics, the sciences and languages are of great importance, unquestionably; but to understand, to speak and to write English correctly is of far greater importance, and should be insisted upon as paramount. It was undoubtedly wise for the Council to omit German and French as a requirement after 1914. In lieu of them, it should strenuously insist on a more thorough preparation of students in English, and suggest that it take the place of German, which was formerly advocated by the Council, is still being taught by many schools in the premedical year, and is insisted upon by the Association of Colleges. A student can learn but little of any language, of which he has known nothing previously, in one year; yet the same time given to the study of English, and the necessary emphasis put upon it at the very beginning of his professional career, would be most fruitful. Appearance, address and correct use of English must always be among a physician's best professional assets, and to be indifferent concerning any of them certainly does not make for success.

In 1903, at its annual meeting in New Orleans, the Association of American Medical Colleges enacted into law a recommendation which had been made the year previous by President Vaughan to the effect that all matriculants in medicine should have a four-year high school diploma. A committee had been appointed at the meeting in Saratoga, and reported formally on the recommendation at New Orleans.

I had then, as now, the distinguished honor of succeeding Dr. Vaughan as president, and used what personal and official influence I could summon to put into effect his recommendation, notwithstanding the fact that it was strenuously opposed by many of my best friends and the two faculties of which I was then a member. As there were only about one third of the number of high schools in 1903 that we have now, and most of them gave one, two and three year courses, and but few a four year course, it was thought best to make the new requirement effective after July 1, 1905, and to give the student the option of an examination in lieu of a satisfactory diploma. This postponement also gave schools time to discharge all outstanding obligations to their students who had matriculated under the former standard. Some of the present difficulties were foreseen, but there was not, and should never be, the slightest sectional discrimination in an organization that is national in scope. This may be proper on the part of states, but the Association of American Medical Colleges and the American Medical Association should legislate, and have always legislated for the entire country.

There is but little doubt that the action taken by the College Association in 1903, and by the American Medical Association since the creation of its Council on Medical Education in 1904, has done much to stimulate the high school system all over the country, improving those schools which did exist, and causing states without adequate high schools to establish them. The medical profession has always exercised a wide influence on our common school system, as thousands of its members serve on school boards throughout the country, have intimate contact with educators, and can exert a wholesome influence upon them. Now is the accepted time to do it, for there are evidences of unrest everywhere. I know that it exists in Philadelphia, and that the adoption of the suggestion of Commissioner Claxton for junior and senior high schools is now being actively agitated in that city.

It is clearly the duty of the Council on Education to have, and even to publish, a list of acceptable and unacceptable medical schools; but I agree with the

6. Flexner, Abraham: Carnegie Report.
7. Carnegie Foundation, Medical Education in Europe, 1912.

position taken by Dr. Pritchett, in his paper at the February conference in Chicago, that the simpler the classification the better, as fewer mistakes will be made and, therefore, heartier support accorded by all. Nice discriminations between wholly acceptable schools are unnecessary, serve no good purpose, will naturally be resented, and may lessen the usefulness of the Council. There is always danger of overdoing a good thing. For example, all will agree that the railroads of the country formerly needed regulation by state and federal government, so flagrant had been their offenses and shortcomings. But nearly everybody, certainly a majority, now think that zealousness in the best of causes went too far, and resulted in injury to the railroads, the country and the people. Hence the present reaction and undoing of much that was unwisely done.

Therefore, the Council abolished "A plus" from its classification. It is proper and feasible to distinguish between schools which are acceptable and those which are not. The former have the necessary all-time teachers, equipment and hospital facilities, the latter are wanting in all of them to a greater or less extent; hence there can be no honest and intelligent difference of opinion concerning them. But, when the Council undertakes to discriminate between high grade schools, mistakes certainly will be made, as Dr. Pritchett so forcibly pointed out; for men would be more than human if they did not use all honorable means to secure the highest rating for their schools, and resent that which seems a work of supererogation, needlessly discriminatory, and inviting criticism and opposition. But while I am very clear as to both the wisdom and expediency of the present classification, I am also of opinion that it is the duty of the Council to give full credit to schools — and to make it equally prominent in its reports — which maintain a different standard from its own, be it higher or lower; and, further, to express an opinion, not only as to the ability of a school to fulfil its pledges, but also if it is consistently doing so. Standards are worse than useless if they are not both honestly and fearlessly enforced, whether the offender be strong or weak. Let others, as the prospective medical students who are most concerned, know exactly what the country offers in an educational way, and precisely where they can get it — not where it is promised. Every one knows that the catalogues and other announcements emanating from schools cannot be absolutely relied upon, as they are oftentimes the specious plea of the advocate and partisan and, if accepted at their face value by prospective students of medicine, will prove in the end both disappointing and illusory. One will hardly go to a doting parent for an unbiased opinion as to the ability, beauty and virtues of a child, nor will one seek opinion concerning a pastor from one of his devoted parishioners. It is about as wise to expect all deans who write medical and other prospectuses to spend their time in criticizing their own institutions.

At the meeting of the Council, Dec. 28, 1914, a suggestion was made, to the effect that, in addition to and following the official classification, the Council should enumerate on a separate page all those schools which require a diploma before one can begin therein the study of medicine; on another page those schools which require two or more years of college work before matriculation in medicine; on still another page those schools which require one year of collegiate work, and, on a final page, those schools which require, in addition to a five-year medical course, a sixth year as intern in an acceptable hospital. The representative of the Federation of State Medical Boards, who was present, said that this arrangement would greatly facilitate their work. I again endorse the proposition, and hope to see it become operative.

A committee, of which President Vaughan is chairman, was appointed by the Council to report a plan by which clinical teaching can be made more effective and practical. On this committee are ten of the ablest and most experienced teachers in the country, and their final report, whatever it may be, must have great influence toward controlling clinical teaching in America. The preliminary report of this committee, presented by the chairman, was read and fully debated at the meeting of the Council in February. It was a most careful, conscientious and able review of clinical teaching, showing how hospitals connected with medical colleges could be so managed as to insure to students practical, and, at the same time, most necessary advantages. Questions of general hospital management, endowment and equipment were considered, as upon them, in large measure, efficient clinical instruction must depend.

THE NATIONAL BOARD

To meet a situation which, under our peculiar form of government, has resulted in hardship, and must, if continued, cause countless embarrassments, a national Board of Medical Examiners has been organized, and will hold its first examination in Washington in October. The character and scope of this examination will be such that no state ought to, and we believe none will, deny recognition, in the fullest sense, to those who pass it.

At the same time, I wish to make it absolutely clear that such a board will not, cannot and should not interfere with the several state boards. Such an examination is for the exceptional, not the average man. It is for the man who, while young, willing and able to pass it, does so with the hope that it may prove a good investment for him in case of business opportunity, ill health in his family, or other impelling reasons which may cause him to change his location. All of us have in mind sad examples of able, even distinguished, general practitioners and specialists, who, compelled to remove from one state to another, were estopped from practicing their profession. Laws have been made, and rightly so, to restrain the ignorant and designing from imposing upon those whom the state would protect. That the state should insure the people protection in so vital a matter by placing its stamp upon medical practitioners cannot be questioned, and there is but one way in which this may be accomplished with equity and justice to all; that is, by requiring an examination at the hands of a state board of examiners. That conditions in all of the states are much better than those which existed prior to the formation of such boards cannot be questioned, for medical schools were given their first shock and made to improve by state boards, years before the Council on Medical Education was created; but the great number of states in our Union, some still maintaining multiple boards, makes a uniform standard simply impossible. Indeed, the boards of the several states not only differ in standard one from another, but the two or three boards in one state may differ as widely among themselves. Yet these differences are not only natural but also to a certain extent commendable, although especially trying and vexatious to practitioners who must move from state to state.

For many reasons a national board with power to confer a diploma carrying with it the unquestioned right to practice in any state — indeed, to follow the flag — has always been desirable, though, as yet, unattainable under existing laws. But there is a way by which such recognition may be accorded to a carefully selected and representative board, entitled of right to the confidence of the entire country, without changing the law in some states, and with but slight and immaterial changes in others. Many states have already, quite properly, given rather wide discretionary powers to their boards of examiners and invested them with authority either to recognize, or to withhold recognition from, extrastate agencies, domestic or foreign. This rests entirely with these boards, and they are governed solely by the standard of the body whose credentials are proffered. If high, they may be accepted without examination of the applicant; if low, they are rejected, and if doubtful, the candidate must be examined. No other course is reasonable. In some states the law is mandatory, and compels the applicant for licensure to be examined, in prescribed fashion, whatever his qualifications or credentials.

It should be a simple matter to induce all of the states at once to recognize a national board whose only aim is to improve the existing situation, and remedy a defect in our law and form of government, provided such board give an examination equal in every way to that required by the most exacting state in the Union. If this be done, then it becomes the patriotic duty of the several states to recognize its licentiates, just as the provinces of Canada now recognize the examination of its national Board of Examiners. There identically the same relations exist between states and general government as obtain with us, and there states' rights and jealousy of the general government prevented for more than fifty years the creation of a national Board of Medical Examiners. For several years past Canada has had such a national board, everybody is pleased with it, and all wonder how they got along without it. The president of the board explained its workings to us fully at the annual Conference on Medical Education in 1914. Shall we do less than Canada? Shall our states be less generous to their practitioners than her provinces? I do not for a moment think so.

The past fifteen years have witnessed a remarkable change in sentiment on the part of the several states toward the federal government. Many things formerly viewed, and resented, as encroachments upon the powers of the states are now not only accepted, but also eagerly sought by them or their representatives in Congress, and consequently all have been bettered. In no direction has a proposed change in our practice offered more to, and taken less from, the sovereignty of states than a properly constituted national Board of Medical Examiners will do. It proffers much; it takes nothing.

If questions of health, quarantine, pure food, the sale of narcotics, laws controlling the destruction of migratory birds, the granting of national charters, etc., have been yielded by states to the federal government — all of which has recently been done — why should there be the slightest hesitation on the part of any state to recognize the act of a national board of examiners, when by so doing it does not in the least surrender either authority or dignity? Certainly such a body, representative of the entire country geographically as well as through its public services and its leading national medical organizations, would be entitled to the same consideration—it asks no more—that is accorded a state board.

The government, without any authority in the premises, has, through the Secretaries of the Treasury, War and Navy, assented to the service upon such board of the Surgeon-General and an associate from each of these departments; and, in addition, has promised that the government laboratories, hospitals and schools for instruction may be used by the national board in conducting its examinations. The combined resources of these three government services are more than ample to meet every demand; moreover, they will insure an examination of such character as we believe to be necessary, yet is impracticable where large numbers of applicants are examined in one building, within a prescribed time, and by only a few examiners.

With the resources available to the board, a number of men can be examined in the several laboratories, some may be given a practical examination in the hospitals, while others undergo written, and still others take oral examinations, or operate on cadavers, all at the same time, but under different examiners.

An executive committee of five members is perfecting details for the first examination, which will be held from October 4 to 11, and longer if necessary, and, presumably, will be similar to that of the Conjoint Board of the Royal Colleges of Medicine and Surgery in England. An advantage, and a very great one it is, to those passing this examination, is the fact that they may subsequently become members of the Medical Reserve Corps of either the Army or Navy, if they so desire, provided that they fulfil the requirements as to age, and pass a satisfactory examination. The government gains also by the enlargement of these corps, and is insured sufficient medical officers in time of war, riot, pestilence or other exigency. Therefore, as I have intimated, it is the patriotic duty of all to support a board which can contribute so much to the national government in time of stress. Those who recall the Spanish War will vividly remember the difficulties which beset both our Army and Navy in obtaining sufficient medical officers. Many of those accepted were far from being up to the standard of the services; this I know, and, having been asked a number of times to recommend young men for the Army, remember how difficult it was to get them. I frequently discussed the matter with the Surgeon-General's office, as well as with Col. A. C. Girard, who was chief medical officer at Camp Meade, where I visited him and sent a number of contract surgeons from time to time.

The National Board has adopted the standard of the Council on Medical Education of the American Medical Association, and, in addition, will require at least one year of service in an acceptable hospital. These requirements will be rigidly enforced; that is, an applicant must give satisfactory evidence of having had the following:

(*a*) A diploma from a high school of good standing giving a four-year course.

(*b*) A satisfactory course in science, embracing physics, chemistry and biology, of not less than one year.

(*c*) Four years in a medical school of A grade.

(*d*) At least one year as intern in an acceptable hospital.

The hospital year is required for two reasons. First, no one should practice medicine independently, how-

V. 191

ever well taught theoretically, until he has had practical training under experienced men, and this can be secured only in a hospital. Some colleges require it before graduation, and some states demand it before licensure.

Second, I think it most desirable that those who pass the examination should have the option of becoming members of the Reserve Corps of the Army or Navy; but to insure this, all requirements must be met. A year's internship in a hospital is required by both the Army and Navy.

While the amount of the fee to be paid by each applicant taking the examination has not, as yet, been determined by the board, there is no doubt that it will be much in excess of that charged by state boards, yet less than the amount charged by the Conjoint Board of England (£42). In America distances are often great, which may, with some, add materially to the expense of taking the examination in Washington; and, over and above the fee paid the national board, every one must also pay the usual fee for registration in the state of his adoption. Recognition of one's qualifications to practice medicine and surgery, by a given state board, by no means absolves one from paying the customary fee, just as though one were examined. To be excused from examination is all that can be reasonably expected, and this must be considered a courtesy, not a right.

As to the personnel of the board, I can say that there will probably be fifteen members, several not having as yet been appointed. All sections of the country are to be represented. As at present constituted, the board consists of: Admiral William C. Braisted, Surgeon-General, U. S. Navy, chairman; Major-Gen. William C. Gorgas, Surgeon-General, U. S. Army; Gen. Rupert Blue, Surgeon-General, U. S. Public Health Service; Col. Louis A. LaGarde, U. S. Army, treasurer; Asst. Surg.-Gen. W. C. Rucker, U. S. Public Health Service; Commander E. R. Stitt, U. S. Navy; Dr. Herbert Harlan, representing the Confederation of State Boards of Examiners; Dr. Isidore Dyer, representing the Association of American Medical Colleges; Dr. E. Wyllys Andrews, representing the American College of Surgeons; Dr. Lewis B. Wilson, representing the Mayo Foundation; Dr. Victor C. Vaughan, representing the American Medical Association; Dr. William L. Rodman, secretary, representing the American Medical Association.

2106 Walnut Street.

Extermination of Sleeping Sickness on Prince's Island.—Portugal is rejoicing that the prompt and thorough measures taken by the national public health service have apparently stamped out sleeping sickness from its colony on the island do Principe, west of Africa, where it seemed to have established a permanent foothold. The glossinas have apparently been exterminated from the island, and the thirty uncured persons are isolated in a state hospital under the direct supervision of the public health authorities. The medical mission that has been in charge of the work has appealed to the central authorities to refuse admission to the island to persons and cattle from infected countries, and to require notification of every case of trypanosomiasis that may develop. Cattle raising should be restricted to the southern part of the island, and hog raising should not be allowed anywhere. The number of dogs should also be restricted. The commission did not limit its work to sleeping sickness, but instituted a general educational campaign in hygiene which the *Medicina Contemporanea* describes in detail.

THE NATURE AND TREATMENT OF BRONCHIAL ASTHMA*

ROBERT H. BABCOCK, M.D., LL.D.
CHICAGO

Until about five years ago, the nature of this distressing affection was a matter for considerable discussion. The very terms applied to it attest the uncertainty regarding its pathogenesis. Thus it was called bronchial, spasmodic, nervous and idiopathic asthma. The appellations "nervous" and "idiopathic" have reference to its obscure causation, while the terms "bronchial" and "spasmodic" denote rather an attempt to define its pathology, if, indeed, it possesses any definite pathology. By some writers the dyspnea was believed due to spasm, but even among these advocates, complete agreement did not exist. Hyde-Salter, Biermer and others argued in favor of spasm of the bronchioles, while Wintrich and Bamberger stoutly maintained inspiratory spasm of the diaphragm to be the condition responsible for the respiratory distress. On the other hand, Weber contended for a fluxionary hyperemia as the essential nature of the asthma. Then we find the Curschmann spirals or the Charcot-Leyden crystals advanced in proof of bronchiolitis as the cause, or rather as the pathologic condition present.

In the consideration of the etiology of this malady, it was believed that heredity played a conspicuous rôle, as shown by asthma in both parent and child. This was especially true in those cases which developed in early life. In all cases a marked nervous influence was believed to exist and to account for the development of the asthma in later years of life and in those asthmatics whose paroxysms were evoked by psychic or emotional impressions or by the wetting of the feet, as cited by Hyde-Salter. Then came the announcement by Hack and others that some cases of asthma were cured by operation on and removal of intranasal abnormalities, as spurs on the septum, etc. The relief afforded in such cases was accidental and led to no intelligent or scientific conception of the actual nature of the disease.

The treatment, accordingly, was purely empiric, and aimed especially at the relief of the paroxysm or at its avoidance. Atropin was vaunted by Trousseau, while potassium iodid was praised by others. For the relief of the paroxysms themselves, asthma powders, morphin, ether, etc., were employed without any intelligent conception of their mode of action aside from the belief that they overcame muscular spasm.

Such, in brief, was the unsatisfactory state of our knowledge and of our therapeutics of spasmodic asthma up to 1909. In that year, Auer and Lewis published an account of their experiments on guinea-pigs by the intravenous injection of fatal doses of horse serum or edestin, and of their discovery that death was due to asphyxia from inspiratory distention of the lungs. In short, it was found that anaphylactic shock in these animals manifested itself as a typical picture of bronchial or spasmodic asthma. Moreover, it was proved that the result was the same when the vagus nerve was cut, the spinal cord and medulla destroyed and powerful artificial respiration was instituted. That the lungs were acutely overdistended with air was shown by even small portions of them

* Read before the St. Louis Medical Society, Feb. 13, 1915.

floating on water and crepitating distinctly on palpation. The experimenters concluded, therefore, that the extreme distention of the lungs was owing to tetanic contraction of the circular muscles of the fine bronchioles and alveolar ducts, and that this muscular spasm was of peripheral, not centric origin. Lastly, it is noteworthy that they found that a hypodermic injection of from 0.5 to 1 mg. of atropin was capable of preventing death from a dose of the foreign protein which proved fatal in the controls.

The foregoing observations on animals called attention to certain facts reported of the effects of serum injections, for example, diphtheria antitoxin, on persons who were sufferers from what is known as "horse asthma." In several instances, persons who had been sensitive to emanations from horses displayed, on receiving the preparation of horse serum, alarming symptoms which in a few cases resulted in death. Accordingly, it was suggested by Rosenau and Anderson, S. J. Meltzer and others that bronchial asthma in human beings might be a phenomenon of protein sensitization, or anaphylaxis, as it is commonly called. Impressed by this suggestion, I studied cases of asthma from a different point of view and soon became an ardent advocate of this conception of the nature of this distressing complaint.

Some of the cases which I shall refer to seem to set forth clearly the applicability of this theory to the etiology of asthma; but let me now present some of the facts regarding anaphylaxis as stated by Victor C. Vaughan in his contributions to the relationship between protein sensitization and disease or immunity.

When a protein foreign to the animal economy enters the circulation, certain body cells generate a proteolytic ferment which attacks and destroys the invading substance. This holds true whether the protein be bacterial or some stable body as egg albumin, the pollen of plants, horse serum or the emanations thrown off from animals, etc. According to Vaughan, this foreign protein, whatever be its source, contains two principles, of which one is toxic and in large enough doses may cause death, while the other sensitizes the animal and is characteristic of the protein. If the protein be introduced at short intervals and is not of an overpowering amount, the cells of the host split it up successfully, and immunity is established. But if the protein be introduced a second time after a period of two weeks or longer, and if it be in a considerable dose, the phenomena of sensitization or anaphylaxis occur.

Furthermore, the proteolytic ferment generated by the body cells is specific for that particular protein which called it into being and for no other. Moreover, the protective cells are capable of generating proteolytic ferments against as many different kinds of proteins as gain access to the blood. Consequently, an animal may become immune against or sensitized to a number of foreign proteins. Again, the body cells appear capable of storing up for an indefinite time, perchance for months or even years, their specific proteolytic ferment, so that a person sensitized to horse serum, for example, in the form of diphtheria antitoxin, may display the phenomena of anaphylaxis on a second administration of the antitoxin or other serum years subsequent to the initial injection. Lastly, the cells of the parent which have generated or stored up a specific proteolytic ferment seem capable of transmitting to the offspring the sensitization of the parent. In this way can be explained the liability to asthma, for instance, observed in several members or several generations of a family.

Finally, it should be borne in mind that the atrium or focus through which a foreign protein may gain access to the animal body may be varied. That is, the avenue of entrance may be parenteral, as an infective focus in the nose, throat, mouth, abdominal cavity, etc., or it may be through the digestive tract. In the last case, the sensitizing agent may be introduced in the form of some article of food, as cheese, shellfish, etc. Ordinarily the protein of the diet is absorbed as amino-acids which are again reconverted into that particular form of protein capable of utilization as nutriment by the body cells. But if, through some defect in digestion, a protein, as of lobster, does not undergo complete solution into amino-acids, and some one of the intermediate products is absorbed, it sensitizes the individual. Then if, after a sufficient lapse of time, twelve days or more, the same article of food is eaten and again passes into the circulation before its complete conversion into amino-acids, it occasions the phenomena of anaphylaxis, as, perchance, urticaria or an attack of bronchial asthma. It is only in this way that we can account for a paroxysm of asthma after an unusually hearty meal or the indulgence in some particular article of diet.

So many and varied are the causes that excite or precipitate an asthmatic seizure that at first thought it may seem absurd or impossible to explain their action on the basis of anaphylaxis. There are few complaints that display such apparently puzzling vagaries. Thus, one asthmatic declared he was sure to experience an attack if he slept on a pillow of goose feathers. The sensitiveness of some sufferers to emanations from horses or cats is well known. Hyde-Salter enumerates among the exciting causes a wetting of the feet, sudden emotion of grief, as in one instance in which an asthmatic learned of the unexpected death of his wife, an indigestible meal, constipation, the appearance of the menstrual function, etc. In some cases the sufferer may be unable to ascribe his attacks to any special exciting cause. Again, there are some asthmatics whose paroxysms of dyspnea come almost periodically after intervals of practical freedom from the attacks of their enemy. In others, the dyspnea is never wholly absent, being associated with the evidence of chronic bronchitis and becoming intensified at times into typical paroxysms of asthma. The state of the latter patients is truly pitiable, and it is these that tax our therapeutic resources to the utmost.

If, now, spasmodic asthma is to be explained on the hypothesis of protein sensitization, then we must assume the existence either of a focus in the body from which the foreign protein is absorbed, or that at some period, perhaps in childhood, protein sensitization occurred or that sensitiveness to a special protein was inherited from a parent, whether the protein be thrown off by animal, fowl or plant.

It might very naturally be asked why one individual shows his protein sensitization by a paroxysm of asthma while another does not, but instead may develop urticaria. At first sight this difference in reaction seems to contravene the claim made for the anaphylactic nature of asthma, or that this lack of uniformity warrants the inference of some specific asthma-producing protein. One cannot account for this differ-

ence except on some such hypothesis as a neurosis or perchance inherited sensitization, notwithstanding the fact that the experiments of Auer and Lewis show asthma in guinea-pigs to be independent of any influence on the part of the nervous system. Certainly anyone treating an asthmatic sufferer must gain the impression that neurosis plays an important part in the complaint.

On the other hand, experience with autogenous vaccines seems to indicate that the anaerobic bacillus discovered in the sputum of the case to be cited is in reality the *causa peccans*. At all events, in all of my cases to date this organism has been found, and has seemed to be the agent which in the vaccines did the most good.

Various foci may be the source whence protein is absorbed. Nasal polypi are not uncommon in asthmatics, and are thought responsible for the dyspnea through reflex bronchial spasm or hyperemia. But how explain the connection on the same hypothesis between asthma and chronic cholecystitis? A physician who had suffered from asthma for sixteen years at length developed symptoms due to gallstones. Believing that this condition still further increased the injury to his heart likely to result from his asthma, he decided on drainage of his gallbladder. This was done successfully, and to the surprise of both patient and surgeon, was followed by a remarkable effect on his asthma. So long as drainage of the gallbladder was maintained, the physician was free from his old enemy, and for the first time in sixteen years was able to remain at home and pursue his practice during the winter. When, however, drainage was allowed to cease, the asthma returned, but in a less severe form. The present state of this patient is not known to me.

How can this be explained on any other ground than that of absorption of a foreign (bacterial) protein? The same explanation holds with regard to nasal polypi. They are symptomatic of chronic ethmoiditis, and their presence in the nasal fossae interferes with free secretion, and hence favors absorption of bacterial protein from the ethmoid cells or from the nasal passages. Their removal does the same thing as did drainage of the gallbladder. This is attested by the fact that radical operation on the ethmoid by curettage has been followed in more than one instance by marked improvement, if not cure of the asthma.

Whenever, as reported by Hack thirty years ago, asthma is lessened or cured by the removal of intranasal abnormalities, it is because better drainage is secured and protein absorption is prevented. In like manner, when Hyde-Salter observed asthmatic attacks to coincide with menstruation, it is not unlikely that some condition such as pyosalpingitis existed, and menstrual congestion interfered with drainage and promoted absorption of bacterial proteins.

We now come to the consideration that in cases of long standing there is quite sure to develop a chronic bronchitis which of itself gives rise to cough and dyspnea even when positive spells of asthma are not present. It is this condition which sometimes accounts for the failure of complete cure following many operations on the nose or accessory parts. When chronic bronchial catarrh exists, careful examination of the sputum by cultural methods discloses various and often numberless bacteria. So long as expectoration is free, absorption is hindered; but whenever cough tightens, ample opportunity is afforded for absorption of bacterial protein and for the phenomena of protein sensitization in the form of asthma. This is well shown by the following case, which illustrates also the sort of treatment likely to prove efficacious in accordance with our newer conception of the disease:

Last July I saw a man who had suffered from asthma for two years, and for two months had been confined to his bed. He was unable to lie down, and physical examination disclosed the typical picture of bronchial asthma: short and ineffectual inspirations with prolonged expirations, chest distended and filled with whistling, wheezing râles that were audible at some distance, a dilated right ventricle and tense, accelerated, somewhat arrhythmic pulse. Cough was difficult, and expectoration scanty and tenacious. Close questioning could elicit no history of a primary focus save that he had catarrh and one loose tooth. He was told to apply epinephrin ointment to the inside of the nose, and was given a prescription containing among other things tincture of lobelia and fluidextract of *Grindelia robusta*. A nose and throat specialist was sent to examine the upper respiratory tract, but no condition that might explain the asthma was found. Next his loose tooth was extracted, and disclosed a small alveolar abscess which was thoroughly evacuated. Vaccines were prepared from the pus of this abscess, but owing to neglect or misunderstanding were never administered.

During this time the man was not under my personal observation, but had been removed to a hospital, and was not again seen by me until late in September. The man had improved after the cure of the alveolar abscess so as to be able to get out on pleasant days, but still suffered with asthma every night. At this time the heart was not much dilated, but the lungs were still filled with numerous dry and moist râles of chronic bronchitis. Accordingly, it was decided to have cultures made from his sputum and vaccines prepared. Rosenow did this work for me, and reported a few fusiform anaerobic bacilli in preponderating numbers, but also pneumococcus, *Streptococcus viridans* and *Streptococcus haemolyticus*. The anaerobic bacillus emitted a somewhat offensive odor, and was believed to be the real offender. Nevertheless a mixed vaccine was prepared, and of this, 0.1 c.c., or 2 minims, was injected. When the man reported after three days for a second injection, he asserted that he had lost his nocturnal asthma after the initial dose of vaccine. In all, about twelve injections were given in gradually increasing doses at intervals of from three to five days, with the result that he not only experienced entire relief from his asthma, but his bronchitis had vanished and he declared he felt perfectly well.

Convinced as I am of the anaphylactic nature of bronchial asthma, the foregoing case seems to me to point the way to the successful management of many if not most instances of this hitherto baffling malady. The first step, of course, is the discovery and removal if possible of the focus from which the protein is absorbed when, as in the case just narrated, this exists in the body of the patient. If, as in some individuals, the asthma is evoked by emanations from an animal or other extraneous source, we can do no more than try to protect against exposure.[1] It is probable that most asthmatics have some abnormality within the nose, accessory cavities, throat or mouth. This defect either furnishes the foreign protein or, if in the nose, obstructs nasal secretions and so favors the growth and absorption of bacteria. Consequently all these possible foci, and especially the ethmoid and teeth, should be painstakingly examined by a competent and wide-awake specialist. If these parts, nose, sinuses, tonsils, teeth and jaws are negative, as proved if necessary by the Roentgen ray, then search should be made in all other parts of the body, and no possible source of

1. The establishment of immunity to horse serum or pollen of plants is being attempted and may yet become a positive therapeutic measure.

infection overlooked. A most minute inquiry into the history is often of the greatest value. Thus I recall a young woman whose asthma was found to have developed not long after what she called a cold, but which coryza had been attended by a profuse purulent discharge. This information led the way to a proper investigation, and a chronic ethmoiditis was discovered.

In some cases, it may be a chronic bronchitis or a patch of pulmonary fibrosis with atelectasis that is furnishing the bacterial protein. In such a case, or when operative procedure has not wholly rid the system of infection, a vaccine should be prepared from the sputum or other discharge, and injected under proper precautions. Some cases will yield readily to such treatment, but others may be met in which repeated cultures and vaccines will be required, for in some cases of bronchitis the chief offending germ may not be at first obtained. Such an instance, now under observation, has proved most perplexing and disappointing.

Perhaps, some one might say, treatment by means of autogenous vaccines may be all right, but what are we to do for relief of the paroxysms while vaccines are being prepared or until our exhaustive study of the case has revealed the original cause of the trouble? This is a proper question, since our therapeutic ingenuity is often sorely taxed. There are a few old and tried remedies which are now known to be antagonists to anaphylaxis and the action of which is explicable on this theory. Thus Trousseau almost a hundred years ago recommended atropin as a preventive, and, singularly enough, Auer and Lewis discovered that from 0.5 to 1 mg. of this remedy injected into guinea-pigs would mitigate or prevent anaphylactic shock from doses of protein that proved fatal in the controls.

Besredka, according to Vaughan, states that alcohol and narcotics exert transient and slight prophylactic effect against the symptoms of protein sensitization. This probably explains the short-lived freedom from an attack which some asthmatics find from whisky, as well as the prompt amelioration usually afforded by a hypodermic of morphin or heroin, etc.

Ten minims of a 1:1,000 solution of epinephrin thrown under the skin are in most cases highly efficacious, and probably possess transient antispasmodic or antianaphylactic power. Pyridin, ethyl iodid and the highly vaunted asthma powders act in the same way very likely, while at the same time they excite bronchial secretions. Tincture of lobelia, aspidospermin, ipecac and *Grindelia robusta*, or other expectorant remedies may be of service by promoting expectoration and thereby lessening absorption of bacterial protein when there is extensive bronchitis. A patient of mine was completely free from his asthma for three weeks after having been etherized for a tonsillectomy, but got his asthma again so soon as he contracted a coryza.

To my mind, no line of management offers so much promise of cure of this obstinate malady as does the administration of autogenous vaccines, in addition to the discovery and removal if practicable of the source of the protein absorption; but the rub comes in the detection of the focus or foci of infection. Patience is required on the part of both patient and doctor, and we should not hesitate to call in the service of experts in some special line of surgery, as rhinologists, in our aim at a thorough investigation and treatment of the case. Therefore, the initial step in successful management is a correct diagnosis.

77 East Washington Street.

THE TREATMENT OF INFANTILE PARALYSIS

PRELIMINARY REPORT, BASED ON A STUDY OF THE VERMONT EPIDEMIC OF 1914*

R. W. LOVETT, M.D.
BOSTON

In the fall of 1914, I was asked by the State Board of Health of Vermont if I would undertake on their behalf the treatment of the cases of infantile paralysis occurring there in the summer of 1914, of which there had been 293. A private citizen had given to the State Board of Health a certain sum of money to be expended on an investigation into the epidemiology of the epidemic and on the treatment of the affected persons. Dr. Simon Flexner of the Rockefeller Institute consented to take charge of the epidemiology end of the inquiry, and I embarked on the enterprise of the treatment of these cases in December, 1914.

The problem of the treatment of so large a group of cases was of itself a new and difficult one. The physicians of these cases were notified by the State Board of Health of certain centers where clinics would be held, and I made five trips to Vermont, spending two days at a time there, for the purpose of prescribing treatment. Cases were grouped in Burlington, Barton, Montpelier, St. Albans and Rutland, the local hospital in each instance being utilized for the purpose, and to each of these places I went with my senior assistant, Miss W. G. Wright, and investigated and prescribed for the cases by groups. Every possible facility was afforded to me for this investigation, and the work everywhere was made easy and agreeable by the interest and cooperation of the physicians and by the very efficient assistance of the State Board of Health.

There applied for treatment at the clinics 235 cases, but a certain number of cases of other years were brought for advice, and a certain number of cases of other paralyses were brought, cutting down the number of the 1914 cases to 149, and it is from these 1914 cases that the conclusions presented are drawn.

All patients were stripped, and the muscles were individually tested as to function. Cases in babies, which could not be examined in this way, are not included in the report. The muscles were classed as wholly paralyzed, partly paralyzed, and normal. By wholly paralyzed is meant that no response could be elicited from a voluntary attempt to contract the muscle either in a contraction of muscular fibers or tightening of the tendon.

The condition of each muscle was then marked on charts, which I originally obtained from Dr. E. A. Sharpe of Buffalo, and these charts form the basis of the following analysis.

NATURE OF THE PARALYSIS

It became evident that partial paralysis was much more common than total. Of 1,452 muscles affected, 416 were totally paralyzed and 1,036 partly, that is, the relation of partial to total paralysis was as 2.5 to 1. The ratio of partial to total paralysis varied in individual muscles, a matter to be discussed later.

A curious phenomenon was several times observed, where part of a muscle was paralyzed and the other

* Owing to lack of space, this article appears in THE JOURNAL in abbreviated form. Reprints of the complete article may be obtained from the author on request.

part not. This was observed in the deltoid muscle, where the anterior or posterior half might work independently of the other, and once in the pectoralis major, where the sternal and clavicular parts were separated by function.

The predominance of partial over total paralysis is of importance. The reason for it would seem to lie in the grouping and relation of the nerve cells in the anterior cornua of the cord. These cells lie

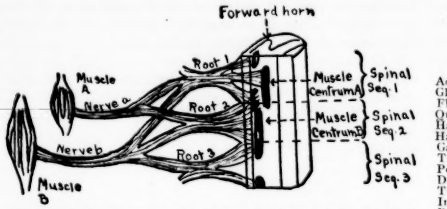


Fig. 1.—Radicular and peripheral muscular innervation. Muscle A supplied by segments 1 and 2; muscle B supplied by segments 1, 2 and 3 (Bing).

in longitudinal bundles, which are naturally largest in the cervical and lumbar enlargements.

I quote from Bing:[4]

> Each contains fibers from several anterior roots, and, conversely, each anterior root distributes its fibers among several peripheral nerve trunks. . . . Anterior nerve root lesions, on the other hand, unless very extensive, merely weaken and do not completely paralyze the muscle, owing to the fact that as a rule the muscle is innervated from several roots.

Moreover, we must remember that the poison of infantile paralysis apparently reaches the cord by means of the circulation, and that the main blood supply is from the anterior spinal artery, horizontal branches from which enter the cord at each side at different levels, about 200 in number. The planes of destruction, therefore, are likely to be transverse, while the lines of nerve center association are longitudinal, so that in the case of a muscle which derives its innervation from a group of nerve cells occupying several segments, a transverse lesion may well leave certain centers intact, and some power may remain in the muscle.

This matter of partial paralysis is most important in the matter of treatment, as we shall see when we come to discuss the therapeutic measure of muscle training, because in such muscles there remains some initiative, and with it the power of developing more muscular volume and new associations by repeated passages of impulses from brain to muscle.

AFFECTION OF INDIVIDUAL MUSCLES

A tabulation was next made as to the affection of individual muscles, which shows that they were affected either partially or totally in the degrees indicated in Table 1. This table gives the number of total paralyses of each muscle, the number of partial and total paralyses, and the proportion of total to partial in each.

The main facts are that the quadriceps, gluteals and gastrocnemius lead in frequency, and that paralysis of leg muscles is much more frequent than of arm muscles. Abdominal paralysis existed in more than half of all the cases (seventy-nine), and affection of the muscles of the spine in more than a quarter (forty). The latter points have a distinct bearing on the occurrence of scoliosis, and indicate, I believe, that such affections are more common than had been supposed. The cases of abdominal paralysis were always symmetrical with two exceptions, one right and one left. This paralysis may occur as the only

TABLE 1.—DEGREE OF AFFECTION OF INDIVIDUAL MUSCLES

Muscle	Number Paralyzed	Number Partial	Number Complete	Proportion of Partial to Total
Adductors	68	52	16	3.2:1
Gluteals	133	106	27	3.9:1
Flexors of hip	81	63	18	3.5:1
Quadriceps	152	119	33	3.6:1
Hamstrings, outer	97	66	31	2.7:1
Hamstrings, inner	95	73	22	2.7:1
Gastrocnemius	128	88	40	2.2:1
Tibialis anticus	119	53	66	0.8:1
Peroneals	96	40	56	0.7:1
Deltoid	57	45	12	3.7:1
Trapezius	49	42	7	6.0:1
Infraspinatus	17	8	9	0.9:1
Pectoralis	29	22	7	3.1:1
Biceps	31	24	7	3.4:1
Triceps	28	22	6	3.6:1
Abdominal	79	64	15	4.3:1
Latissimus dorsi	49	40	9	3.4:1
Spinal	40	36	4	9.0:1
Flexor carpi ulnaris	16	12	4	3.0:1
Flexor carpi radialis	16	11	5	2.2:1
Extensor carpi ulnaris	19	14	5	2.8:1
Extensor carpi radialis	18	13	5	2.6:1
Opponens pollicis	12	9	3	3.0:1
Extensor pollicis	23	14	9	1.5:1
	1,452	1,036	416	

paralysis in the entire muscular system. When associated with paralysis of other parts, the association is always with leg muscles.

The tibialis anticus and gastrocnemius are the only leg muscles which have been found to be affected by themselves without paralysis occurring elsewhere in the body. Of the former muscle, there were five

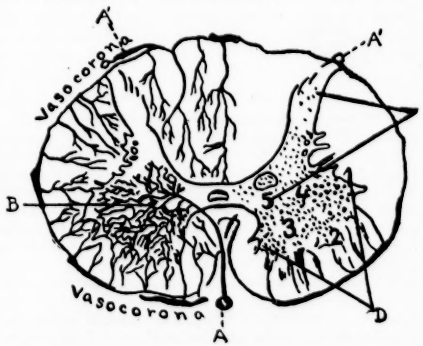


Fig. 2.—Distribution of blood vessels and nerve cells in the transverse section of the cord. *A*, anterior spinal; *A'*, posterior spinal; *B*, area of distribution of sulco-commissural artery; *C*, tract cells; *D*, root cells. 1, postero-lateral; 2, antero-lateral; 3, antero-mesial; 4, central; 5, postero-mesial (Bing).

cases of paralysis, of the latter three. Deltoid paralysis may occur alone in the arm.

The investigation of paralyses of the arm showed (1) that the paralysis was most frequent at the shoulder and diminished in frequency from the shoulder to the hand; (2) that the paralysis was severest (that is, that the percentage of total cases

4. Bing, Robert: Compendium of Regional Diagnosis in Affections of the Brain and Spinal Cord, New York, Rebman Company, 1909.

was largest) in the shoulder and diminished as one went toward the hand, and (3) that paralysis of the muscles of the left arm was very much more frequent than of the right arm.

These three factors will be considered and tabulated, and then the leg will be considered in the same respects, after which the possible meaning of these phenomena will be discussed.

Other facts about paralysis of arm muscles are as follows: In cases in which the muscles of the upper extremity are involved without paralysis occurring at other parts of the body, it is more severe in this region than when the muscles of the legs are also involved; that is, arm paralysis which is strictly regional is more severe than arm paralysis which exists in combination with more general paralysis. This statement rests on the analysis of fifty-eight cases.

TABLE 2.—FIGURES SHOWING THAT PARALYSIS OF THE ARM MUSCLES IS MOST FREQUENT IN THE SHOULDER AND DIMINISHES TOWARD THE HAND

Muscle	Total Paralysis	
Deltoid	57	
Trapezius	39	
Pectoralis	29	
Infraspinatus	17	
Shoulder group	142 ÷ 4 = 35.5	
Biceps	31	
Triceps	27	
Upper arm group	58 ÷ 2 = 29.0	
Flexor carpi ulnaris	16	
Flexor carpi radialis	17	
Extensor carpi ulnaris	19	
Extensor carpi radialis	18	
Forearm group	70 ÷ 4 = 17.5	
Opponens pollicis	23	
Extensor pollicis	12	
Hand group	35 ÷ 2 = 17.5	

TABLE 3.—FIGURES SHOWING THAT PARALYSIS OF THE ARM MUSCLES IS SEVEREST AT THE SHOULDER AND DIMINISHES TOWARD THE HAND

Muscle	Total Paralysis	
Deltoid	12	
Infraspinatus	9	
Pectoralis	7	
Trapezius	7	
Group	35 ÷ 4 = 8.75	
Biceps	7	
Triceps	6	
Group	13 ÷ 2 = 6.50	
Flexor carpi ulnaris	4	
Flexor carpi radialis	5	
Extensor carpi ulnaris	5	
Extensor carpi radialis	5	
Group	19 ÷ 4 = 4.75	
Extensor pollicis	3	
Opponens pollicis	9	
Group	12 ÷ 2 = 6.00	

With regard to paralysis of the muscles of the lower limb, the following facts were observed, which are of importance as contrasted with the similar observations in the arm:

1. The paralysis was on the whole more frequent at the hip, and diminished in frequency toward the foot; that is, the individual muscles in the upper segment were more often affected than in the lower (Table 5).

2. The paralysis was on the whole lightest in the hip, next lightest in the thigh and severest in the lower leg; that is, the proportion of total to partial paralysis increased as one went away from the hip toward the foot (Table 6).

RIGHT AND LEFT LEG

With regard to the relative frequency of paralysis in the right and left leg, the figures show in a total of 954 paralyses of leg muscles that there were 465 muscles paralyzed in left legs and 489 in the right, showing no especial difference in the affection of the two sides. This is a marked contrast to the predominance of left paralyses in the arm.

TABLE 4.—FIGURES SHOWING THAT PARALYSIS OF THE MUSCLES OF THE SHOULDERS, ARM AND FOREARM IS MORE FREQUENT ON THE LEFT SIDE THAN ON THE RIGHT

Muscle	Right	Left
Deltoid	24	33
Trapezius	18	21
Infraspinatus	6	11
Pectoralis	11	18
Biceps	11	20
Triceps	12	15
Flexor carpi ulnaris	7	9
Flexor carpi radialis	7	9
Extensor carpi ulnaris	7	12
Extensor carpi radialis	6	12
Extensor pollicis	5	7
Opponens pollicis	10	13
Total	124	189
Ratio	2 to	3 (very nearly)

TABLE 5.—FIGURES SHOWING GREATER FREQUENCY OF PARALYSIS IN UPPER SEGMENT THAN IN LOWER

Muscles	No.
Quadriceps	152
Gluteals	133
Gastrocnemius	128
Tibialis anticus	119
Outer hamstrings	97
Inner hamstrings	95
Peroneals	96
Flexors of hip	81
Adductors	68

TABLE 6.—PROPORTION OF PARTIAL TO TOTAL PARALYSIS IN THE MUSCLES OF THE LOWER EXTREMITY

Muscles	Partial to Total
Gluteal	4.0: 1
Quadriceps	3.6: 1
Flexors of hip	3.5: 1
Adductors of hip	3.2: 1
Hamstrings	2.7: 1
Gastrocnemius	2.2: 1
Tibialis anticus	0.8: 1
Peroneals	0.7: 1

ANALYSIS OF PREDOMINANCE OF PARALYSIS IN LEFT ARM AND FREQUENCY OF DISTRIBUTION IN ARM AND LEG

Certain interesting problems are opened up by this study of arm and leg affections which demand analysis. The facts of paralysis occurrence are as follows: The muscles of the limbs nearest the trunk are more frequently affected than the distal ones; the left arm muscles are noticeably more frequently affected than the right. The leg muscles in the right and left leg are equally affected.

The facts of use or function are that the right arm is much more actively used than the left, not only more frequently, but also for more varied and complicated and finer movements; the legs are used equally It would therefore seem that muscles used actively, continuously and in a complicated way were more likely to escape than those less used, or used for simpler, less continuous work. One would suppose that the blood supply would be more free around the spinal centers where the motor activity was greatest

V. 191

and most complicated, and perhaps less free where the motions were less frequent and complicated. This would account for the predominance of left arm paralysis and the equal paralysis of both legs.

After these figures were worked out, it seemed that such a relation between right and left should appear more in older than in younger patients, because in the younger ones the differentiation between the right and left arms is of course less marked than in the older, younger children being much more nearly ambidextrous. If such a relation between right and left arms rested on a functional basis, it would be expected that there would be a larger proportion of left arm paralyses in older than in younger patients. In twenty-four patients 5 years old and younger, there were twelve left arms and twelve right paralyzed, a ratio of 1:1. In twenty-seven patients over 5 years of age (from 6 to 38 years) there were twenty cases of left arm paralysis and seven of right, a ratio of 3:1.

I should wish to acknowledge here my great indebtedness to Prof. W. B. Cannon and Assistant Professor Martin of the Physiological Department of Harvard University for much assistance on the physiologic side of the problem.

This also accords with the distribution of the paralysis in both arms and legs, which has been shown to be most frequent near the trunk. The demands on the hip and shoulder muscles are simple and less continuous than on the muscles of the lower leg and forearm or of the hand and foot. The latter are continuously active in small, fine, complicated movements, whereas the larger muscles nearest the trunk deal with the coarser and less frequent movements. The relation between the activity of the proximal and distal parts of a limb are not unlike those of the left and right arm in their relative use. It seems probable from these facts and this grouping that, on the whole, muscle centers given to finer, complicated, more frequent movements have a more active blood supply and are less likely to attack on their nerve centers from the virus of infantile paralysis than the centers of muscles functioning in heavier, less complicated and less frequent movements.

ANALYSIS OF SEVERITY DISTRIBUTION IN ARM AND LEG

In the next place, it has been shown that the muscles of the upper extremity are more severely affected nearest the trunk and less severely lower down, whereas in the leg this relation is reversed, and the largest proportion of severe paralyses is in the lower leg and foot. This is estimated on the proportion of total to partial paralysis in the individual muscles.

This puzzling phenomenon is more nearly correlated to the weight coming on each muscle in the activities of the upright position than to any other factor. The great majority of these patients were walking in some form or other, so that the weight-bearing position may fairly be taken into account.

At the shoulder, the deltoid, triceps and biceps all help to hold the arm up against the shoulder joint, and the weight to be met not only in this suspensory function, but also in attempted movements, is greatest at the shoulder and less as one goes down the arm, because the weight of the whole arm is obviously more than the weight of the lower one or two segments. Upper arm muscles, consequently, have more weight to handle than lower arm and hand muscles.

In the leg, on the other hand, the weight to be met in muscular function increases as we go from the hip to the feet, as of course there is greater superincumbent weight at the lower leg than at the hips, so that the lower leg muscles must raise more weight than hip muscles in walking, for instance. There is, of course, no proof that this variation in severity of paralysis is caused by this greater or less weight to be met in muscular function. The explanation accords with the facts, however, better than any other seems to do. Severity distribution cannot be connected with size of muscles, or function of a peculiar sort. It cannot be explained by local circulatory sluggishness affecting dependent parts. It is not associated with anterior or posterior muscles, nor is it easy to connect it with spinal localization. It seems purely a segmental limb distribution, and whether it is or is not the correct explanation, severity of paralysis is proportionate to the weight to be met by the muscles of the different levels, not because this factor influences in any way the original affection of the cells, but because it may retard the recovery of those muscles working against the greatest weight.

This suggestion has a direct bearing on the matter of treatment, for if it is correct it may be interpreted into showing the ill effects on muscular recovery of overuse, a matter which will be discussed later.

Infantile paralysis has been heretofore regarded as a haphazard affection of muscles, most frequent in the leg, and in the cord lesion it appears to have a purely accidental distribution most marked in the lumbar enlargement. It is possible, however, that there are other factors than the cord lesion which determine the ultimate condition of affected muscles. The analysis just made as to frequency and severity of paralysis shows that in cases some months after the attack there are apparently existing conditions not easily to be explained by the cord lesion alone, but suggesting that function, and especially the function of maintaining the upright position, may have something to do with determining the ultimate distribution.

ASSOCIATED PARALYSES IN THE LEG

Further pursuit of the inquiry suggested by the analyses just given takes up the question of muscular grouping in the leg. If the paralysis were a purely segmental affair wholly determined by the cord lesions, there would be in the limbs a roughly segmental distribution, muscles at the front and back of the thigh and front and back of the leg being more often paralyzed in this combination than in any combination suggesting associated function. In other words, opponents would be more often paralyzed in combination than would synergistic or functionally associated muscles at different levels.

The leg rather than the arm was selected for this analysis because of the greater simplicity of function in the former. In the arm, rotation movements complicate the more purely forward and backward movements of the lower extremity.

The inquiry then resolved itself into the investigation of whether associated or antagonistic muscles were most often paralyzed in combination in the legs.

The muscles in the leg most closely associated functionally are the gluteals, the quadriceps and the gastrocnemius, for they are the muscles which maintain the upright position. The gastrocnemius holds the tibia upright on the foot, the quadriceps holds the

knee straight, and the gluteals hold the trunk erect on the legs. The associations were as follows: If the quadriceps is paralyzed, either the gluteals or the gastrocnemius or both are almost always associated with it. In 109 cases there were only two exceptions. In three cases the quadriceps had no association in the leg. In the 109 cases of quadriceps paralysis, to contrast with the 106 associations of gluteals or gastrocnemius, there were only fifty-eight associations of paralysis of one or both hamstrings. The quadriceps, therefore, is affected nearly twice as often with its associated muscles as with its antagonists.

When the gastrocnemius is involved, the quadriceps or gluteals were involved in 108 out of 109 cases; but the antagonists of the gastrocnemius, the extensor longus digitorum and the tibialis anticus, either one or both, were paralyzed in combination with it in only sixty-six cases.

EXPLANATIONS OF PREDOMINANCE OF ASSOCIATION PARALYSIS

This predominance of association paralysis is susceptible of several possible explanations, of which the following may be mentioned:

1. The muscles which maintain the erect position are all very large, and must have large centers composed of many motor cells. On account of their very extent, therefore, they are more likely to be affected than smaller muscles by a generally distributed destructive process in the cord. That this is not altogether acceptable is shown by reference to Table 1, in which it will be seen that the tibialis anticus and peroneals, which are small, are of high incidence, and the pectoralis major, a large muscle, is of low incidence.

2. The second explanation is that associated muscles may be so intimately grouped in the arrangement of their motor centers in the cord that they are more likely to be involved in the same lesion than opposed muscles would be. If, however, one may trust to the present data on the segmental innervation of these muscles, this view is not borne out.

3. The third explanation for the predominance of residual paralysis in associated rather than antagonistic groups may be in the functional relation of the muscles themselves. Three muscles, the gluteal, the quadriceps and the gastrocnemius, work together to maintain the upright position, and if a whole leg is lightly affected, it may be that the association of these muscles in function may retard their recovery by their intimate and necessary functional dependence on each other; especially if one were seriously affected, it might retard the recovery of the muscles associated with it by throwing more work on them than they were able to perform in their affected condition, which condition would not obtain with regard to antagonists.

At this stage of the inquiry, it is not possible fairly to choose either one of these three explanations as the one to be accepted to the exclusion of the others.

CLINICAL APPLICATION

Such are the facts elicited in this preliminary analysis.

I regard one point as fairly well established by these figures, namely that there is another factor beside the plain anatomic distribution of the lesion in the cord which determines something of the extent and severity of the residual paralysis.

The therapeutic measures at our disposal in fairly early cases are massage, electricity and muscle training.

Massage may be expected to improve the local and general circulation, to facilitate the flow of lymph, and to retard muscular deterioration. It cannot, however, be expected to facilitate the transmission of a motor impulse from the brain to the muscle.

Electricity is less highly regarded in the treatment than was formerly the case. The unintelligent use of electricity month after month to the exclusion of other measures has been one of the handicaps which has stood in the way of the best progress in many cases. It is quite possible that it may improve the muscular condition. Statements of its value rest as a rule on bare personal assertion or on the unusually rapid improvement of individual cases; but cases vary greatly in their rate of improvement, and the only way to judge of the value of electricity is to use it on one side of the body in bilateral cases and use the other side as a control. In the winter of 1913-1914, some cases in private practice were given daily treatments of galvanic electricity on one side and none on the other, while daily muscle training was being given by my assistant, who was not told which side was receiving the electrical treatment. At the end of some months she was asked if either side had shown more rapid improvement than the other, and no difference had been noted. This simply confirmed my general experience of many years of less careful observation.

Muscle training, on the other hand, rests on a sound physiologic basis, works out empirically better than any other of the measures, and the large proportion of partial paralysis in the cases observed shows its reasonableness.

OVERFATIGUE AND OVERUSE

We come now to the final, and what I believe to be the most important part of the paper, namely, the possible effect of overfatigue and the overuse of massage on returning muscular function, a phase of the treatment question almost wholly neglected.

If we take the case of a partly paralyzed muscle with some remaining power, we are anxious to bring about in that muscle the greatest possible return of functional power; that is plainly our object of treatment. Now the rational exercise of a normal muscle results in increase of size and power of that muscle, and presumably the result would be the same in a muscle weakened by infantile paralysis which was rationally and physiologically exercised or massaged. We are, however, dealing with muscles in many instances very weak and incapable of doing much work, and it must be an easy thing to overexercise them.

As to the question of this overuse, the following facts are suggestive: The majority of the early cases seen in Vermont showed partial rather than total paralysis; the gastrocnemius muscle in cases of early paralysis was quite different from the stretched, lengthened and powerless gastrocnemius muscle of late cases. Muscles partly paralyzed in which power is returning may be rendered functionless by slight grades of overuse. These considerations all have a bearing, and in connection with observations to be mentioned, indicate the possibility that in many cases of infantile paralysis we are encouraging in partly paralyzed muscles a function wholly beyond their ability, and are thus delaying their return of power and possibly converting partial into total paralysis. The observations follow:

It has been repeatedly observed in my private practice that power might begin to return in a very faint degree to a muscle while under muscle training, and that with care this power would steadily increase, but if that muscle were exercised even very gently every day, that power would diminish or disappear, so that we exercise such muscles only once in three days at the outset, increasing the work most carefully.

A young man under my care, severely paralyzed in both legs, six months after the attack showed some return of power in the peroneals. This developed and was exercised in the usual way, but he was so delighted with the new function that one year after the attack he tried it at intervals all of one day on the principle that if a little exercise were good a large amount would be better, and the power promptly disappeared, never to return in full amount after some five months.

A young man with a paralysis of the left arm acquired in Vermont in September, 1914, was brought from New York to see me in December, 1914. He was having massage and exercises daily from an apparently competent masseur, and was urged to use his arm as much as he could to stimulate returning function; but for a month he had not improved, and the parents therefore decided to send him to me for treatment. He could not, however, come to Boston for a month, and asked what treatment he should pursue in the meantime. A sling supporting the shoulder was put on, he was forbidden to use the arm except at meals, and massage was stopped. After a month of this routine he showed at least 25 per cent. of increase of power.

I saw with Dr. F. B. Percy of Brookline, Oct. 19, 1914, a child of 10 with a total paralysis of the anterior tibial muscle and partial paralysis of the gastrocnemius. Ten days after the attack, sensitiveness had gone, but the child could only walk badly and unsteadily. She was kept quiet for a month more, when she was allowed to walk a few steps daily. She made a remarkable gain, and massage and muscle training were begun, Jan. 6, 1915, although the amount of walking was not increased to any extent, the child walking only a very little. In four months the gastrocnemius and tibialis anticus had apparently nearly normal power when their resistance was tested by the hand, but the child still limped a little. Feb. 24, 1915, four months after the attack, the mother was asked to keep this child practically off of her feet for two weeks while the other conditions of treatment were the same. At the end of this time the limp had disappeared.

Oct. 5, 1914, I saw a child of 5 with nearly complete paralysis of one leg below the knee from an attack three months previous. The child walked badly, but was much helped by a brace to hold the foot at right angles to the leg. Muscle training was started, and the child improved satisfactorily, evidences of returning muscle power becoming plain. March 6, 1915, the mother made a statement that attracted my attention, namely, that the child walked better in the morning than at night. She was asked to keep the child off of his feet as much as possible for a month, restricting walking to the greatest possible degree. April 6, 1915, examination showed during the month a very striking increase in power in the muscles controlling the foot, and it was evident that the progress in the last month had been far greater than in any previous month, and the child walked as well at night as in the morning.

These illustrative cases seem to me to show that much smaller degrees of overuse may be deleterious than is generally supposed. Probably any of us would agree that gross and persistent overuse of partly paralyzed muscles would be undesirable; but it seems to me reasonable that in the early stage of returning power, we should be exceedingly careful in the use of muscles in walking and in the use of heavy and prolonged massage, much more careful than we are at present, if I may judge the practice of others by my own previous methods.

I hesitate to reason from an unproved conclusion in this connection; but may I once more call attention to the fact that the proportion of total to partial paralysis is greatest in the muscles which have the greatest weight to oppose in the standing and walking position and least in those which have the least weight, in a series of cases observed some months after the acute attack. If overuse is the harmful factor that I believe it to be in retarding recovery, its effect would be noted in just those muscles which show the highest proportion of total paralysis.

234 Marlborough Street.

EXPERIMENTAL STUDIES OF VARIOUS ANTISEPTIC SUBSTANCES FOR USE IN TREATMENT OF WOUNDS

BASED ON THE WORK OF SIR W. WATSON CHEYNE *

ROBERT A. KEILTY, M.D.
AND
JESSE E. PACKER, M.D.
PHILADELPHIA

The purpose of this paper is the experimental study of the antiseptic power and diffusibility of various substances commonly used to check bacterial growth. The study is based on and largely follows the report of Sir W. Watson Cheyne.[1]

The study by Cheyne grew out of a desire to prevent sepsis in the wounds of soldiers received while on duty in the trenches and at the battle front during the present war. As a result of these wounds, an enormous number of serious infections have occurred, followed by a high mortality. This is due in part to a delay in reaching the base hospital and in part to the large number of wounded needing treatment at one time. It was Cheyne's idea that each man should carry a convenient package of some antiseptic diffused in a proper vehicle which could be introduced into wounds immediately after their occurrence, thus preventing or retarding bacterial growth locally, until a thorough disinfection could be carried out at a more convenient time and place.

In a later communication as a result of this work, the British government is now forwarding two packages to each man in the navy, one a paste made up of 20 per cent. phenol (carbolic acid) in a lanolin base and the other a powder of equal parts of boric and salicylic acids. A paste was chosen as a vehicle because of its ease in handling, because of the danger of liquids being lost and because of the fact that the recesses of lacerated tissues are more easily reached. Cheyne advised a paste composed of lanolin, 6 parts, and white wax, 1 part. This proved best from every point of view according to his experience. In our own work we have used this, and find one made up of castor oil, 70 parts, white wax, 20 parts, and spermaceti, 10 parts, to be equally advantageous, to diffuse a little more readily and to be considerably cheaper.

* From McManes Laboratory of Pathology, University of Pennsylvania.

* Read before the Pathological Society of Philadelphia, May 13, 1915.

1 Cheyne, W. W.: Lancet, London, Feb. 27, 1915.

The relative inhibitory, germicidal power and diffusibility of various antiseptics used and the most effective strength was determined by incorporating them into the base and growing bacteria on a slab of agar-agar over the paste. It was found that blood clot and agar worked equally well, and our work has been confined to agar.

The general scheme is to place the paste on the bottom of a Petri dish underneath the slab of nutrient agar, and to inoculate the upper surface of the agar with a bouillon suspension of bacteria. The activity of the antiseptic can be easily judged by observing the presence or absence and extent of growth on the surface of the medium.

TECHNIC

In order to obtain comparative results, conditions must be exactly the same for each substance tested. Hence 0.5 gm. of the antiseptic substance is used in each instance. This is spread on a coverslip three-quarters inch in diameter. Where drugs are to be tested in liquid form, two thicknesses of filter paper three-quarters inch in diameter are saturated with the substance, and the experiment carried on as with the paste. The agar slab must be the same thickness in every case. For this Edmund's chamber is used (Fig. 1). This consists of two glass plates, a brass ring one-quarter inch in thickness, a small portion of which has been removed, and three heavy paper clips. One plate is sterilized by passing through a flame and laid on a support, and the brass ring is flamed and laid on the plate, the open portion of the ring at one margin. The second plate is sterilized and placed over the ring. These are bound together with the paper clips. This forms a chamber open at one point into which melted agar is poured and allowed to solidify. When solid, the paper clips are removed, and the upper plate and brass ring lifted. This leaves the agar slab on the lower plate. The coverslip with the paste is placed on the center of the exposed agar, care being taken to have the paste next to the agar. The lower part of a Petri dish is inverted over the agar, and the Petri dish, agar and glass plate turned upside down. With a platinum rod the agar is easily transferred to the Petri dish. A tube of melted agar is poured around the slab to hold it in place. Finally the upper surface of the slab is inoculated by gently stroking with two loopfuls of a bouillon suspension of bacteria. The suspension is made by transfering two loopfuls of a twenty-four to forty-eight hour bouillon culture to a tube of sterile bouillon. This technic is that used by Cheyne with but slight modification for convenience. The plates are incubated for twenty-four hours at 37 C. (98.6 F), and the results recorded. The results remain remarkably fixed after the initial growth, even for days and weeks.

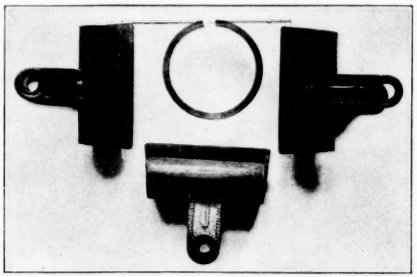


Fig. 1.—Edmund's chamber: a brass ring, two slides and three paper clips.

The organisms used in our work were the *Staphylococcus aureus, Streptococcus pyogenes* and *Bacillus coli*. It was found that substances inhibiting *B. coli* acted on the streptococcus to the same degree and on the staphylococcus to a greater degree, so that in most of this work *B. coli* has been used.

In comparative results the points observed include: 1. Is growth present and to what extent? 2. Is the growth directly over the paste? 3. How close to the margin of the paste does the growth extend? 4. What are the size and number of the colonies in relation to their distance from the paste?

From this comparison a convenient classification of the results may be given under three groups. 1. Those drugs which are markedly active. 2. Those drugs which are slightly active. 3. Those drugs which are inactive.

In order for a drug to fall under the first group, it must have not only antiseptic powers but also a wide range of diffusibility. The phenol group stands out preeminently, so much so that it is almost alone. Thus, too, the activity of the drug should be within a non-toxic dose as compared to common usage in an ointment, or as to its known absorbability in internal administration. Under the second heading drugs may be quite antiseptic locally, and yet according to this method show little or no diffusibility, except immediately over the paste, which means in distance a diffusing power of one-quarter inch through agar. Substances, for example, the dyes, may be quite diffusible and yet have little antiseptic power. If this range of diffusibility applies in vivo and the percentage of the drug used is carefully worked out, I see no reason why there is not offered a wide variety to be applied in the rational treatment of wounds not only in war but in civil life.

A summary of the substances tested follows:

1. Those drugs which are markedly active; under this we may include the following: tricresol, 10 to 20 per cent.; phenol, 10 to 20 per cent.; thymol, 10 to 20 per cent.; creosote, 25 per cent.; mercuric iodid, 10 to 30 per cent.; tincture of iodin, 5 to 10 per cent.

2. Those drugs which are slightly active: salicylic acid, 20 to 30 per cent.; Japanese powder, salicylic and boric acids, 20 to 30 per cent.; zinc chlorid, 20 per cent.; mercuric chlorid, 0.2 to 0.4 per cent. (in solution, 1:750, and 1:625); guaiacol ointment, 10 per cent.; mercuric ointment, 33 per cent.; creosote, .10 per cent.; carbolfuchsin (contains 5 per cent. phenol).

3. Those drugs which are inactive: iodin, 2 to 6 per cent. (crude drug); menthol and camphor, of each, 20 per cent.; boric acid, 30 per cent.; iodoform, 90 per cent.; zinc sulphate, 1 to 5 per cent.; alcohol absolute, alcohol methyl, alcohol, 95 per cent.; calcium chlorid, 20 per cent.; liquor formaldehydi, 0.1 and 0.5 per cent. (in solution 1:1,000, 1:500); lead nitrate, 5 to 10 per cent.; silver nitrate, 5 per cent. (in solution, 20 grains to 1 ounce); turpentine, 1 per cent.; ether, chloroform, Delafield's hematoxylin, sudan III, Loeffler's methylene blue, eosin watery solution; iodin green, glycerin, bismuth betanaphthol, 20 per cent.; salol, 20 per cent.; hexamethylenamin, 20 per cent.; zinc oxid, 25 per cent. scarlet red (2 per cent. scharlach R); bismuth subnitrate, 50 per cent; balsam Peru, ointment, 25 per cent.; scharlach R saturated solution.

It might be well here to include a little detail concerning some of the more important drugs. Of all the substances used, thymol and tricresol stood out prominently. This was noticed in two ways. They had a wide range of diffusibility, at the same time

V. 191

inhibiting the active growth of those few colonies which formed. Alone they were both active, while in combination this activity seemed somewhat increased. Tricresol was used in percentages of 5, 10, 15, 20 and 25. It was noticed that with *B. coli*, for instance, in a 5 per cent. paste, a diffuse growth took place over the entire surface but much thinner over the paste; in 10 per cent., no growth over and one-quarter inch beyond the paste; in 15 per cent., very few and small colonies on the outer one-quarter inch of the agar; in 20 per cent., no growth. Thymol had about the same action, and possibly from all standpoints showed a little more activity.

Many combinations were tried, including phenol, creosote, thymol, salicylic acid, mercuric iodid and tricresol in varying percentages. Out of this group tricresol and thymol were selected as the best. Tincture of iodin (Fig. 2) gave the following: in 0.5 and 1 per cent., growth over the entire slab; in 2 and 4 per cent., up to the filter paper; in 5 per cent., one-quarter inch beyond the paper, and in 10 per cent., no growth. Crude iodin in 6 per cent. in paste failed to inhibit the growth over the entire surface,[2] but this solution contains only a small amount of iodin: about 0.35 per cent. Salicylic and boric acids, in equal parts as a dusting powder known as Japanese powder, because of its use in the Russo-Japanese War, in a 30 per cent. paste seemed to be quite efficient.

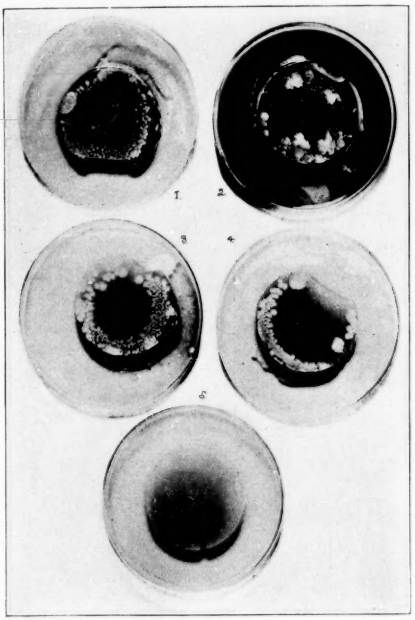


Fig. 2.—Tincture of iodin series: *1*, 1 per cent.; *2*, 2 per cent.; *3*, 4 per cent.; *4*, 5 per cent.; *5*, 10 per cent.

Those substances listed under the inactive heading in the percentages given all show diffuse growths over the agar slab. Silver nitrate, while it showed colonies over the entire surface, reduced the size of those colonies quite appreciably. Scarlet R (scharlach R 2 per cent.), a much used antiseptic, showed large colonies. Scharlach R in saturated alcoholic solution showed large colonies. Sudan III, an allied substance, showed quite an extensive growth.

From our experience, the following paste or ointment is recommended. Thymol and tricresol, of each, 10 per cent. in a base composed of castor oil, 70 parts, white wax, 20 parts and spermaceti 10 parts. Thymol and tricresol are more efficient in 15 and 20 per cent. pastes. They are recommended for use in 10 per cent. when infection has not taken place, or is superficial and not virulent, and in the higher percentages when the infection already exists or is severe. In the use of this paste, 1 dram of a 10 per cent. ointment represents 0.3 gm. or about 5 grains each of the antiseptic. Thymol internally in twenty-four hours has been recommended in dosage of 7 gm. in three hours (Wood). It is true that this is removed afterward by purgation. Pure cresol may be given internally in 2 to 3 minim doses (Wood). Cresol has the advantages of phenol with greater power, less irritation and lower toxicity. This statement may be open to criticism. However, we feel safe in recommending this ointment in dram doses of 10 or even 20 per cent. In the higher percentages, caution should be taken especially as to frequency of application. Since its object is a germicidal one, in these percentages one application should be sufficient with future asepsis maintained by less toxic substances. One of us has applied 1 dram of the 10 per cent. ointment, rubbing it well into the unbroken skin surface. There have certainly been no general effects and only the mildest local tingling. Examination of the urine before and two hours after the application showed no appreciable change in the sulphates.

2. In 10 per cent., mercuric iodid had a fair degree of diffusibility. Lugol's solution showed a growth over the entire surface.

CONCLUSIONS

1. The method as outlined by Cheyne offers an excellent means for the study, experimentally, of the diffusibility and antiseptic power of drugs.

2. The results obtained are confirmatory in some cases and startling in others as to the value of well-known remedies.

3. The phenol group and thymol give the best results as far as our work goes.

4. We are able to recommend an ointment composed of a base, castor oil, 70 parts, white wax, 20 parts, spermaceti, 10 parts, with tricresol and thymol, 10 per cent. each. Lanolin and wax may be used, but the vegetable base has some advantages.

5. These results are experimental, and must be borne out by clinical application. This we hope to do and report on in the near future.

6. The only drawback is the possibility of toxic effects, and this may be overcome by cautious usage in the amount applied and the interval between dressings.

7. This paste has a wide range in civil life as well as in war, and should prove more effective than those of common usage because of the increased percentages of the drug.

8. At the same time, the principle of the large dose is to establish at once or to maintain an asepsis in a wound, until ideal conditions for surgical treatment are available.

THORIUM—A NEW AGENT FOR PYELOGRAPHY

PRELIMINARY REPORT

J. EDWARD BURNS, M.D.
Assistant Resident Urologist, James Buchanan Brady Urological Institute, Johns Hopkins Hospital
BALTIMORE

In order that a solution may be ideally suited for use in pyelography, it must fulfil the following conditions: It should be nontoxic, nonirritating, and quite fluid, so as immediately to escape from ureters and bladder, and present the greatest possible degree of opacity to the Roentgen ray, casting not only a good shadow but also one of clear delineation.

Various colloidal solutions of salts of the heavy metals such as iron, silver, bismuth, copper and lead, and suspensions of the salts of bismuth, calcium and

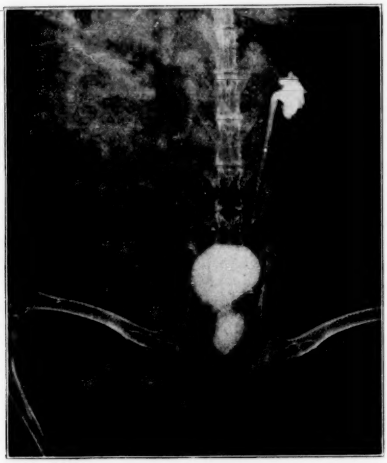


Fig. 1.—Rabbit's ureter and pelvis of kidney injected with 50 per cent. solution of thorium nitrate in distilled water.

magnesium have been tried. All of these solutions sediment on standing, and while being, for the most part, quite opaque to the Roentgen ray, are viscous, and some are quite toxic and irritating.

Thorium nitrate dissolves readily in water, giving a clear, markedly acid solution, which, while being opaque to the Roentgen ray, is unsuitable for use because of its being an irritant, possessing a marked degree of astringency, and precipitating insoluble salts in the urine. This solution cannot be injected intravenously into animals because it causes intravascular clotting.

The neutral solution of thorium nitrate and sodium citrate, however, about to be considered, possesses, as far as observations made at the present show, all of the previously mentioned salient characteristics for use in pyelography. In this solution there seems to be a complex ion formation which changes both the chemical and pharmacologic action without causing any decrease of the opacity of the solution to the Roentgen ray. This solution also inhibits, but does not prevent the growth of ordinary bacteria. It flows readily, owing to its lack of viscosity, and escapes immediately from a ureteral catheter when injected into the pelvis of the kidney, or can be voided immediately if used in the bladder. It is perfectly clear to

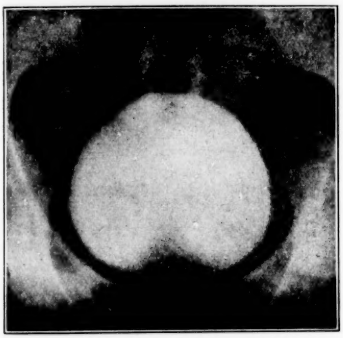


Fig. 2.—Normal bladder shadow. The bladder of this patient was injected with 350 c.c. of a 10 per cent. neutral solution of thorium nitrate and sodium citrate. Cystoscopic examination seventy-two hours after injection showed the bladder picture to be the same as before injection. The patient experienced no discomfort after the injection, nor where there any signs of irritation.

Fig. 3.—Trabeculated bladder with dilated internal sphincter, bilateral hydro-ureters and hydronephrosis due to congenital obstruction in the posterior urethra in a boy, aged 12 years. In this case, 600 c.c. of a 10 per cent. neutral solution of thorium nitrate and sodium citrate were allowed to flow in by gravity through a urethral catheter, the patient being in the Trendelenburg position while the picture was being taken. Cystoscopic examination, five days after the injection, showed the bladder picture to be the same as before injection. Phenolsulphonephthalein output and blood urea estimation were the same as before the injection. There were no signs of any irritative action.

transmitted light, possessing a faint, yellowish tinge in large volume. It is perfectly clean and does not stain the clothing. From an economical standpoint, it

has a decided advantage, being much cheaper than any of the silver preparations used at present, which are very expensive, particularly if used in quantities sufficient for bladder pictures and large hydronephroses. These preparations are also objectionable because they stain the clothing, have such viscosity as to make

Fig. 4.—Renal pelvis and ureter. Seven and five-tenths c.c. of a 15 per cent. neural solution of thorium nitrate and sodium citrate were allowed to flow into the pelvis of the kidney by gravity through a ureteral catheter. The phenolsulphonephthalein output was unaffected by injection; the solution caused no signs of any irritative action.

injections through a small catheter difficult, are very irritating when they escape into the tissues, and have, as a matter of fact, been followed by death in several instances.

The solutions used contain 10 per cent. and 15 per cent. thorium nitrate and are made in the following way:

To make 100 c.c. of a 10 per cent. solution, 10 gm. of thorium nitrate are dissolved in as little distilled water as possible; to this solution, kept hot on a water or steam bath, are added 30 c.c. of a 50 per cent. solution of sodium citrate, the additions being made in small quantities and care being taken to shake the solution thoroughly after each addition. At first after the addition of the citrate solution, a white gummy precipitate is formed which later becomes granular, and finally dissolves on the addition of all the citrate solution. This solution is then made neutral to litmus by the careful addition of a normal solution of sodium hydroxid, and made up to the required volume of 100 c.c. with distilled water. On filtration, a clear, limpid solution is obtained, which, when sterilized, either by boiling or steam under pressure, is ready for use. The stability of the solution is not affected in the least by sterilization.

The neutral solution of thorium nitrate and sodium citrate, prepared as directed above, is not irritating to the mucous membranes or peritoneal surfaces, does not precipitate salts in the urine, and can be injected intravenously up to 1.5 c.c. per kilogram of body weight and given by stomach up to 4 c.c. per kilogram of body weight in dogs without causing any change in the phenolsulphonephthalein output, blood urea content, hemoglobin content or cellular elements of the blood. No gastro-intestinal symptoms have been observed in any of these animals up to the present time. Complete protocols of these animals and further studies in regard to its pharmacologic action will be published in a subsequent paper. This solution may also be used in the roentgenographic study of the gastro-intestinal tract and other viscera.

The illustrations show not only the density of the shadow but also its clear delineation, when this solution is injected either into the bladder, ureter or pelvis of the kidney.

Further clinical studies are being pursued, and a report of their results will be published later; but the advantages of this neutral solution of thorium nitrate and sodium citrate for pyelography and other skiagraphic studies are so great that this preliminary report is now given. It is being used regularly in all our suitable urologic cases, and apparently is perfectly innocuous. If further experience confirms our present studies, it seems probable that we have in it a method of great value to urologists and roentgenologists.

SHORT CIRCUIT OF THE VAS DEFERENS

CHARLES MORGAN McKENNA, M.D.
Surgeon to St. Joseph's Hospital; Instructor in Genito-Surgery, College of Medicine, University of Illinois; Genito-Surgeon to People's and St. Bernard's Hospitals
CHICAGO

By short circuit of the vas I mean joining together the patent lumen of the vas with a section of the epididymis or testicle. Just a word regarding the anatomy of these parts in order to make the following clear.

The testis is composed of an enormous number of much convoluted seminiferous tubules, which fill up the intervals between the septums. These tubules form larger tubules, and finally make up the vasa efferentia, and on reaching the head of the epididymis form a larger tube which is called the canal of the epididymis. After a tortuous course, this ends at the globus minor and opens into the vas deferens. This is at the extreme lower pole of the testicle. The vas deferens begins at the tail of the epididymis and ends in the common ejaculatory duct, where it enters the prostatic or first part of the urethra.

Fig. 1.—Exposure of vas deferens; silkworm gut in lumen of cord.

The operation under discussion is usually done to repair an old gonorrheal epididymis in which there is an obstruction of the vas between the tail of the epididymis and the external inguinal ring. It is of the greatest importance, therefore, to know whether that part of the vas is patent between the external inguinal

ring and the opening of the ejaculatory duct into the prostatic urethra. This may be investigated at the time of the operation, but better should be done two or three days before the operation by drawing the vas through a small skin opening and injecting it with a solution of argyrol or collargol. By injecting the vas with either one of these solutions, the urine will become discolored a dark brown on first urination, hence, showing the vas between the incision and the prostatic urethra to be patent. If it should be found that the vas was not patent, it would be of no avail to do a short circuit operation, but Lespinasse's operation of the distal end of the vas becomes the one of choice.

Granting that the lumen is patent, the next point to be considered is the condition of the channel as to infection. It would be quite an error to go on with the operation if the seminal vesicle or ejaculatory duct contained any pathogenic organisms. I therefore wish to emphasize that it is quite important that the operator be absolutely sure that these parts are perfectly clean and will perform their duty if called on, provided one succeeds in opening the passage for the spermatozoa. If there is any doubt as to this condition existing in the seminal vesicle or ducts, these should be treated after Belfield's method.

Dr. E. D. Martin of Philadelphia in 1900 tried this operation with success. He used four fine silver wires for the anastomosis and used the head of the epididymis as the base for the implantation. This was done on each side at different sittings, and at the second operation succeeded in getting free spermatozoa in the urethra.

Scatudo in 1901 tried the same operation by doing an implantation of the vas into the rete of the testis. In his case, he did a complete resection of the epididymis, using the argument that if it were tuberculous, he could still get free sperm direct from the testis. One of his dogs escaped without an examination being made, and the others did not show any live sperm.

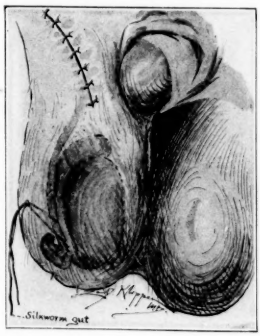


Fig. 2.—Anastomosis of vas with epididymis.

Boarri in 1908 reported a case in which he succeeded in getting the sperm through direct from the rete in the testis.

My own work has been done mostly on dogs at the St. Joseph's Hospital. This is more or less of a preliminary report on the work thus far carried out. In the first three dogs operated on, the incision was made over the vas in close proximity to the epididymis. The vas was divided at this point and brought in apposition to a section of the epididymis, the incision in the epididymis being made in the head. In the first three cases, ordinary catgut was used to make the anastomosis, and as a result no sperm could be found in the urethra. In the next three cases, two were done the same as the first, and in the third a fine silver wire was used instead of the catgut, which was removed later. In the case in which the wire was used, no trouble was manifested in finding free spermatozoa in the urethra. Before doing the next two, I consulted Dr. Belfield, who explained that, while he had never tried it or seen anything in literature, he thought it would be a good scheme to introduce a silkworm-catgut in the lumen of the vas, and draw it out through the skin. This was done, and I shall show later in the technic of the operation how it materialized. In the last two dogs operated on, a side anastomosis was done instead of the end of the vas being used as at first. The silkworm-catgut introduced in the lumen of the vas was not used as an anastomosing suture, but as a means to leave the lumen patent and remove any blood clot that might tend to obstruct the vas after the operation. This plan worked perfectly in all cases, even in one case in which the vas was crossed over to the opposite epididymis.

The work on man so far consists of six cases, five of which can be reported. Out of these five, two have passed living sperm, three have not passed any, and in the last one, sufficient time has not elapsed between the operation and the time of the writing of this paper. I feel that I am somewhat to blame for the nonappearance of the sperm in these cases. While there had been success with the operations performed on the lower animals, it is quite a different thing to operate on man when pathologic conditions exist. The error was made in doing the anastomosis, the head of the epididymis, instead of the tail, being always used. The selection of the portion of the organ to be used depends altogether with the operator. This may or may not be in the extreme tail of the body.[1]

It is not a good plan to do the anastomosis unless plenty of free motile spermatozoa can be found. Free spermatozoa cannot be mistaken by the naked eye when there are enough present. The appearance of sperm in the vas is that of white milky pus passing through blood. After a few observations there will be no difficulty in locating the best field for the implantation. But considerable time should be spent in locating a suitable section for the implantation, to assure the patient a fair prognosis. Thus far, I have had no difficulty in finding the motile sperm in the tail of the epididymis or one-fourth inch above the tail. In one of the cases in man in which operation was performed, the amount of sperm was so much that I was sure there must have been some pus still remaining in that section of the epididymis. Before the operation was completed, a slide was covered with the fluid and sent to the laboratory for diagnosis. Dr. George Dick made a microscopic report which showed the slide to be completely covered with living sperm. In this case sperm was found afterward in the urethra.

TECHNIC

I base my technic for short circuit or transplantation of the vas deferens on the contention that vas operations should follow out sound surgical principles as used in surgery in other parts of anatomy. Some of the important points are:

1. Clean exposure and fixation of the cord.

1. In one of the first cases reported in which the head of the epididymis was used for the implantation, the second and fifth nights after the operation the patient had an emission in which blood and argyrol were found in the discharge. This was certainly a proof that the operation was a success, and if free spermatozoa had been present they would have passed through.

2. The patency of the vas between the incision and the ejaculatory ducts. (This information is obtained by doing an injection of the vas previous to the present operation, Belfield's method.)

This operation is indicated when the occlusion is below the internal inguinal ring. The procedure is as follows:

The patient is cleaned and prepared as for any other surgical interference, except that tincture of iodin is not allowed to touch the scrotum in order to prevent excoriation. The patient is put under general anesthesia and placed in a slight Trendelenburg position. An incision is made in the same location as in operating for inguinal hernia and carried to the pendulous portion of the scrotum. The vas and epididymis are exposed at this point. A tenaculum or volsellum forceps are placed about the cord at its junction with the epididymis. A silkworm-gut is carried underneath the vas about 3 or 4 inches above the forceps. This is done to fix the cord in order that a clean field may be maintained, and makes the entrance to the vas easier for the operator.

The vas deferens is stripped of its covering for 2 or 3 inches above the epididymis by gauze dissection and Kocher director. Great emphasis is laid on this point as it expedites the operation and prevents any error in getting in its longitudinal axis in the lumen of the vas. An incision is made into the vas about one-half inch long. A fine pointed bistoury is the best instrument for this purpose. The incision is made about 2½ inches above the head of the epididymis. A piece of silkworm-gut is introduced into the lumen of the tube by means of a long hypodermic needle. The thread is put into the proximal end of the needle and pushed in just to the distal margin. The needle is now placed in the incision already made in the vas and pushed into the lumen of the cord above to the incision, and the point of the needle is brought out through the wall about 2 inches above the lower opening. The thread is drawn through the needle at this point, and the needle withdrawn through the lumen of the vas, thus leaving the silkworm-gut extending from the incision below and out through the wall 2 inches above, both ends of the thread being free. I wish to mention here that this is Dr. William Belfield's suggestion, and to him I wish to give all credit. Two sutures of chromicized catgut are placed through the incision already made in the vas and brought down into the opening made in the epididymis. The sutures are tied for permanent fixation, thus making the anastomosis of the vas with the epididymis and out through the skin, the sutures being tied loosely on the outside. These stitches are left in for from ten to fourteen days in order that the lumen of the vas may remain open. The tunica is closed in the regular way, as are the rest of the anatomic structures. The wound is healed and the scrotum put in a well-elevated position. The patient remains in bed from seven to ten days, at which time the skin sutures are removed.

The scrotum is carried in a suspensory from four to five weeks after the operation in order that no pressure be brought to bear on the anastomosed vas. Intercourse should not be allowed until six weeks after the operation.

CONCLUSION

I wish to emphasize the following points:

The vas should be free from infection.

The section of the epididymis used should contain plenty of free sperm, and the tail used for implantation.

108 North State Street.

Vital Statistics and Sanitation.—A nation that does not consider it necessary, or that is not able to provide adequate means for registering the births of its own children, or for officially recording the deaths of its citizens, can hardly be supposed to attach sufficient value to human life to enable sanitary measures for its conservation to be adequately carried out.—C. L. Wilbur, quoted by Irving Fisher, Memorial Relating to the Conservation of Human Life.

New Instruments and Suggestions

A PRACTICAL METHOD OF APPLYING THE WAX-TIPPED CATHETER IN THE DIAGNOSIS OF URETERAL STONE IN THE MALE

FRANK HINMAN, M.D., SAN FRANCISCO

It is barely three years since the valuable wax-tipped catheter method of diagnosis of stone in the ureter, introduced more than twenty years ago by Howard A. Kelly of Baltimore, for use in the female, was adapted by Burton

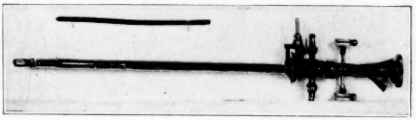


Fig. 1.—Preparation of wax-tipped catheter sheath: A soft rubber urethral catheter which will pass freely through the operating cystoscope (No. 9 or 10 F. for Brown-Buerger instrument) is passed into the cystoscope until the end projects a little beyond the elevator of the instrument. The other end is cut and slit up so that when the two slit portions are turned back over the mouth of the telescope they will hold the catheter in this position.

Harris for use in the male. The adaptation proposed (1912) by Harris has several objections: 1. The difficulty, trauma and pain of passing the cystoscope are increased. In the procedure the wax-tipped bougie is first passed into a full bladder, and the cystoscope, with its catheterizing telescope in place, is then threaded down the urethra over this bougie

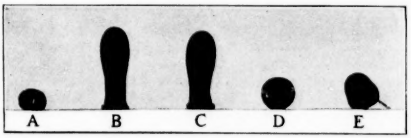


Fig. 2.—Method of making rubber tips for the operating telescope from small pipet bulbs: *A*, large rubber tip with single perforation on the market. This is too small for use with the rubber sheath; *B*, plain rubber pipet bulb, 3 cm. in length; *C*, bulb divided into three equal parts; *D*, first part placed inside of third and fastened with two silk sutures; *E*, single perforation in bulb, made with hot needle.

as over a filiform. Naturally the beak of the instrument must scrape along the catheter, and the window of the instrument, having no obturator, adds to the roughness and difficulty. 2. Security against scratching the waxed tip, whose position in the bladder is unknown on the insertion of the cystoscope,

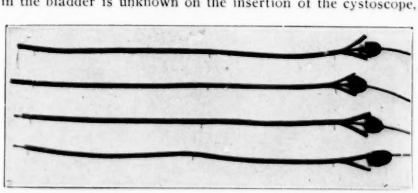


Fig. 3.—Rubber sheaths with wax-tipped catheters: In the upper two the tips are about 1 inch from the end, the position in which they should be, both for insertion of sheath into cystoscope and for withdrawal of sheath and catheter for examination of the waxed end. The rubber tip at the slit end of the sheath serves to mark and hold the catheter in this position. In the lower two the catheters have been pushed through for examination.

is not absolute. 3. The cystoscope must always be withdrawn from the bladder before the catheter is removed from the ureter.

A simple procedure, which overcomes these disadvantages, has been used recently in several cases with entire satisfaction. It eliminates completely the added difficulty and pain

in passing the cystoscope. It gives perfect security against extraneous scratches, and it permits the removal of the wax-tipped catheter for examination without previously withdrawing the cystoscope. The latter is a great advantage. Several control waxed tips may be passed one after the other, thus confirming the findings or accurately measuring the distance of the stone from the ureteral orifice. At the same time, and through the same cystoscope, an ordinary ureteral catheterization followed by functional study, ureteropyelogram or even both may be made, thus obtaining complete information in the case at the one cystoscopy.

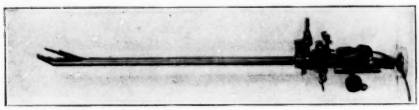


Fig. 4.—Catheter sheath fastened in place by rubber tip. The elevator of the instrument has been raised, showing how the rubber sheath protects the waxed tip.

The operating cystoscope (Brown-Buerger is used, but the method is applicable with any operating instrument) is passed into the bladder as for ordinary cystoscopy, the obturator withdrawn, the bladder washed out (the irrigating fluid should not be too warm, as it may soften or melt the wax), and the operating sheath of the instrument then inserted. The wax-tipped catheter has been provided with a soft rubber sheath, which should easily pass through the operating barrel of the instrument, as shown in Figures 1 and 3. The usual rubber tip (Fig. 2 *A*) for the irrigating instrument is too small to cover the orifice of the telescope when the slit ends of the rubber sheath are turned back. A very satisfactory tip may be quickly made, as indicated in Figure 2 *B*, *C*, *D* and *E*. In fact, this tip will be found to be much more satisfactory for all work with the operating cystoscope than the hard, friable tips on the market. The method of passing the wax-tipped catheter is indicated in Figure 4. The sheath with its catheter inside (to within 1 inch of the end) is threaded into the instrument until the end of the sheath appears in the visual field just beyond the end of the elevator of the instrument. The slit portions of the other end of the sheath are then spread to the opposite sides and covered by the rubber tip, which thus securely holds the sheath in place and insures dryness. The waxed tip is now carefully pushed into the field (Fig. 5), the elevator, which strikes the rubber sheath and not the catheter is raised, and the catheter then pushed on up safely by the beak of the instrument into the ureter (Fig. 4).

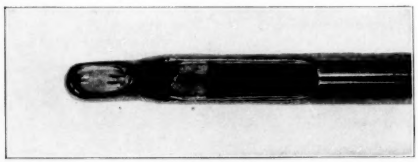


Fig. 5.—Waxed tip and rubber sheath before raising the elevator of the cystoscope.

In removing the wax-tipped catheter, after passing it up the ureter as far as desired, the lever of the instrument should be kept partially elevated; the waxed end can then be withdrawn into its sheath with no danger of striking the beak of the instrument. It is preferable to withdraw the sheath with the catheter in it, rather than to withdraw the catheter through the entire length of the sheath, for examination. In this way the waxed tip will have passed only a very short distance through its sheath, being originally retrograded into it to a distance of about 1 inch, and, before examination and after having passed up the ureter, not being withdrawn into it to a greater distance than this.

Physicians Building.

A NEW LID EVERTER

SIDNEY ISRAEL, M.D., HOUSTON, TEXAS

This small lid everter is the outcome of an endeavor to find an instrument that would give a large exposure of the entire upper lid and culdesac. Its most salient features are simplicity of design, ease of manipulation, and freedom from causing pain in introduction. It has been the means of revealing several cases of trachoma that had been overlooked by ordinary methods.

In introducing the instrument, it is grasped at its distal end between the tips of the thumb and index finger. With the patient looking down, the lashes of the upper lid are held in the tips of the thumb and index finger of the left hand. The knobbed ends of the instrument are then placed gently on the upper lid about one-half inch from the ciliary margin with the instrument in the vertical position. With the fingers of the left hand holding the lashes, the lid is retracted over the knobbed ends, and with gentle pressure on the distal end, the entire under surface of the upper lid, including the culdesac, is freely brought into view. In this position the knobbed ends can be slid from the outer to the

Fig. 1.—New lid everter.

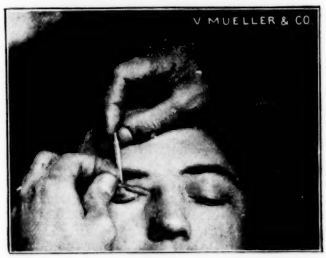


Fig. 2.—Method of using the lid everter.

inner canthus, exposing any part desired. In this position also, with the under surface of the lid exposed, the hold on the eyelashes by the fingers of the left hand can be released, and with the tip of the index finger of the right hand on the distal end still maintaining the position of the instrument in the vertical meridian, the thumb of the right hand can be dropped down to hold the lashes in place to maintain a complete eversion of the lid, while with the left hand free, any foreign body that is present on the under surface of the lid is easily removed.

The instrument can be readily carried in the pocket, and because of facility of introduction, can be used universally by the general practitioner and the ophthalmologist.

IMPROVED FORM OF BRAIN EXPLORER

HAROLD GIFFORD, M.D., OMAHA

In the *Laryngoscope*, January, 1914, I described a brain explorer consisting essentially of two knife blades held together with a spring, to be used in cases of suspected brain abscess in place of the exploring needle or scalpel. As is well known, each of the latter instruments may pass through the wall of an abscess, and either on account of thickness of the wall or thickness of the pus, may not reveal its presence. The practice of passing in dressing forceps and opening them here and there in the brain can hardly be called either accurate or elegant. With this brain explorer,

one passes the instrument into the brain as far as one thinks necessary, and then opens the blades; if no pus escapes, they are closed and passed on, being opened from time to time until they have gone as far as is permissible in any given direction. One can be sure after having done this that no pus in this particular tract will be left undiscovered.

Since my first article was published, I have modified the instrument, because on using it I found there would be a decided advantage in having the spring set off at an angle from the main axis of the blades. This greatly facilitates the introduction of a drainage tube or other drainage apparatus into the cavity of the abscess when the latter has been found. When the abscess has been penetrated and pus found, the instrument is kept in position until the drainage tube or gauze has been introduced into the cavity between the separated blades of the explorer, which have

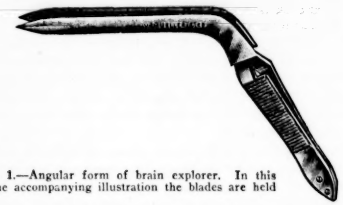


Fig. 1.—Angular form of brain explorer. In this and the accompanying illustration the blades are held apart.

been grooved on the inner side to facilitate the introduction of a glass tube. The opening in the abscess wall can be enlarged to the desired extent by the closed blades of the explorer, or, if preferred, this can be done with a blunt-pointed bistoury introduced between the blades.

Since I first described the explorer, I have had occasion to use it in three cases of brain abscess. In two of these it worked most admirably. In one of them, the abscess was deeply situated in the frontal lobe, and it is a very open question whether the ordinary instruments would have opened it successfully. This patient on account of disagreement with the internist in charge, passed out of my hands to that of another surgeon, and what the final outcome will be, remains to be seen. Another patient with a large temporo-sphenoidal abscess is now, after three months, apparently perfectly well. In the third case, the abscess was a very small one originating apparently from the sphenoid cavity,

Fig. 2.—Form of explorer suitable for entering the floor of the brain through the mastoid wound.

and was situated so far back, and so close to the median line, that although a careful search was made for it, it was missed, and the patient died.

In speaking of this instrument, which I have had in mind for a number of years, I have always said that the principle of it was so obvious that the idea must certainly have occurred to many operators beside myself, and I have found since my paper was published that West and Scott of London, in their excellent book on aural surgery (Blakiston's Sons & Co., 1909, p. 106), figure an instrument which they call an expanding trocar, which is made to be used in the same way. This, however, has such narrow, short blades that it must be decidedly less effective than the explorer here shown.

Beside the angular form of explorer (Fig. 1), I have had one made with curved blades (Fig. 2) for use on the floor of the brain. This form enables one to enter the temporo-sphenoidal lobe through the mastoid wound much more readily than could be done with the straight blades.

A COMBINED STAINING METHOD FOR MALARIAL PARASITES AND BLOOD SMEARS

FREDERICK F. RUSSELL, M.D., ANCON, CANAL ZONE, PANAMA
Major, Medical Corps, U. S. Army

In this country the most popular blood stain is Wright's modification of the Romanowski method; in England and the English colonies, Leishman's stain is used almost exclusively, while in Germany, Giemsa's is the favorite. These stains and their many modifications are all excellent for chromatin, but as ordinarily used they fail to bring out the cytoplasm of the malarial parasite with the sharpness and distinctness obtained with Manson's borax methylene blue. The latter, until the Romanowski was simplified by Leishman, Wright and others, was the best we possessed for malarial parasites; in fact, for routine work it is still used by many.

The advantages of Manson's stain may be briefly stated as follows: 1. Cheapness, permanence and simplicity of preparation. It is made by dissolving 5 gm. of borax in 100 c.c. of boiling water and adding 2 gm. of methylene blue, medicinally pure; when cool the volume is made up to 100 c.c. and the stain is ready for use. 2. The clearness and distinctness with which it brings out the cytoplasm of the malarial parasite. 3. The rapidity and simplicity of the staining technic. The smear is fixed for a few moments in equal parts of alcohol and ether, or methyl alcohol, and allowed to dry; it is then immersed in a very dilute solution of Manson's stain for from ten to thirty seconds, washed in water and dried. 4. It also shows well the basophilic degeneration of the erythrocytes.

Its disadvantages are that: 1. It fails completely to show the nuclear chromatin of protozoal parasites. 2. It fails to bring out the granulations in the leukocytes. Because of these two defects, Manson's stain has fallen into disuse in this country in spite of the fact that it stains the cytoplasm of the malarial parasite better than any other.

The disadvantages of the methyl alcohol stains of Leishman, Wright, Hastings and MacNeil are: 1. Their expense; it requires approximately 1.3 c.c. for each slide, and methyl alcohol of proper quality is costly. 2. The rapid evaporation of the stain on the slide, with resulting precipitation; this is especially troublesome during the windy season in the tropics. In Vera Cruz, for example, it was difficult to obtain clear preparations unless the slide was protected during the staining by a bell jar. 3. Great care and watchfulness are necessary to success in staining. 4. With none of these stains is the cytoplasm of the malarial parasite so clear and distinct as with Manson's stain. The stain of Giemsa belongs to this class, although it is used in aqueous solution; it is slow, expensive, practically impossible to obtain except from Gruebler in Leipzig and while it gives excellent chromatin stains, the cytoplasm is not well brought out.

The advantages of the methyl alcohol stains are: 1. The rapid and perfect fixation. 2. The clear and beautiful staining of the chromatin of the nucleus. 3. The production of Schuffner's dots in the erythrocytes in tertian malaria. 4. The beauty and distinctness of the nucleus, cytoplasm and all classes of granules in the leukocytes. 5. The distinct staining of the blood platelets.

It is evident that an ideal picture would result if the best of the methyl alcohol chromatin stains could be combined with Manson's cytoplasmic stain. After several attempts the following method was found to give the best results and it has been used for the routine of the laboratory for thousands of blood preparations:

1. Fix and stain for two minutes in Wright's or similar methyl alcohol stain. It is most convenient and economical to use about 50 c.c. of stain in a Coplin jar; the top should fit well to prevent evaporation and the stain may be used repeatedly.

2. Without washing, transfer the slide to a glass of tap water for from three to five minutes.

3. Without washing, transfer to diluted Manson's stain for from twenty to forty seconds. One-half c.c. (7 drops) of Manson's stain to 50 c.c. of tap water in a Coplin jar gives

about the proper strength. This staining fluid in concentrated form keeps well, but the diluted stain should be freshly prepared each day.

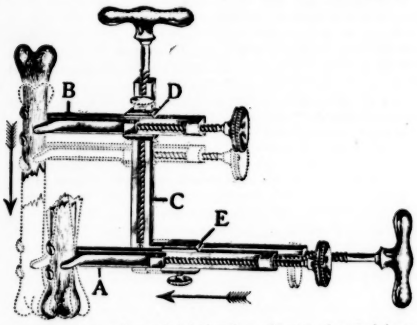
4. Wash quickly in tap water, dry and examine.

With this method, good preparations showing both the nuclear chromatin and the cytoplasm of the malarial parasite are obtained. The method is economical since very little of the methyl alcohol solution is used; and this is important in the tropics and at places far removed from the base of supplies. The slides being always in the vertical position, any precipitate which forms falls immediately to the bottom of the vessel. Soaking the slide in water during Step 2 does not affect the staining of the chromatin in the least, but does dissolve out most of the blue; this is replaced, however, in Step 3 by a better blue than any of the methyl alcohol stains are capable of giving. The whole point of the method, so far as malarial parasites are concerned, is that an intense cytoplasmic stain is added to the excellent chromatin stain obtained with Wright's, Leishman's, MacNeil's and other methyl alcohol stains, making the parasites much more distinct and more easily and quickly recognized in the routine examination of many slides for malaria.

APPARATUS FOR FRACTURED BONES

WILLIAM E. SCHROEDER, M.D., CHICAGO

The instrument consists principally of three parts—an L-shaped arm, *C*, the two branches of which carry two carriages and two bone clamps. The removable carriages, *D* and *E*, are movable in two directions, one laterally



Apparatus for holding and bringing into alignment fractured bones of the extremities, for the purpose of applying bone plates, splints of absorbable material or human bone grafts.

and the other away from or toward the operator, as may be required. Mounted on the two carriages are two strong and adjustable bone clamps which are modifications of the well-known Lowman clamp.

The illustration shows quite clearly the method employed in bringing the bone ends into apposition. The two bones are grasped by the clamps, *A* and *B*, these clamps then being attached to their respective carriages and held fast by means of heavy screws. Numerous anchoring points in the side of the clamps permit the thumb screw of holding the clamps firmly with but little exertion on the part of the operator. By means of a worm gear actuated by hand grips, each carriage with the clamp attached can be moved. Thus the bones can be brought into alignment no matter whether they override or in whatever position they may be. Immense traction can thus be had with very little effort, and once the parts are adjusted, they are held firmly together until plates, splints or grafts are applied or inserted. The instrument is made entirely of steel, and can be easily taken apart for sterilization.

25 East Washington Street.

Special Article

PRACTICAL PHARMACOLOGY *

(*Continued from page 2067*)

XXV

ANTIEMETICS—GASTRIC SEDATIVES

This heterogeneous group, if it can be called a group, of drugs will be discussed briefly. The physiology of emesis which has been discussed in the preceding pages suggests the nature of those agents which may be used to lessen nausea and vomiting, for it is obvious that if emesis results from irritation of the gastric mucous membrane and from stimulation of the vomiting center in the medulla, emollients, demulcents, and other protective agents will lessen the local gastric irritation, and if relief is urgently demanded depression of the central nervous system may be resorted to, though this is seldom necessary, except as a temporary measure, for example, when it becomes necessary to prevent vomiting while administering a drug by the stomach.

Unfortunately, we have no drug which depresses the vomiting center without causing an undesired depression of other nervous centers.

Occasionally vomiting results from reflexes arising elsewhere than in the stomach and other measures than those just mentioned must be employed, for it is well known that foul odors and other purely psychic influences may cause nausea and vomiting. Psychic influences may contribute to gastric disturbances, or may prolong them even when they are not alone sufficient to induce actual emesis, and attention should be paid to such influences.

Heat and humidity in the atmosphere interfere with digestion and contribute markedly to nausea and vomiting when there may be another exciting cause.

Vomiting occurring after ether anesthesia usually ceases spontaneously after the mucus which has been swallowed is expelled but emesis occurs frequently when food is taken some hours after chloroform anesthesia. Hot water—not tepid—should be sipped, or a glassful may be drunk if small amounts do not give relief. Cracked ice is sometimes more serviceable than hot water. Thirst following chloroform anesthesia may be relieved by drinking hot water, when it is taken easily, but as this causes diuresis, which may or may not be indicated, and since the taking of rather large quantities of water tends to tax the stomach unduly, rectal injections of warm water may be used to avoid gastric irritation, warm water being retained better than cold.

Infants regurgitate milk without indications of gastric disturbance, when more than sufficient is taken, but when vomiting with distress occurs, due to gastric disturbances, it may indicate the need of substituting barley water for the regular food for a day or two.

When vomiting is secondary to diphtheria it is said to indicate cardiac weakness demanding urgent relief for the heart.

Vomiting occurs in nephritis and disturbances of other organs in which the stomach is not irritated directly, and if the emesis is severe and persistent it

* This is the twenty-fifth of a series of articles on useful drugs — on practical pharmacology for the general practitioner. As soon as completed, these articles, elaborated by additional subjects, will be published in book form.

may call for sedatives for the vomiting center, in which case morphin may be injected subcutaneously.

Cyclic vomiting has been described as accompanying a variety of symptoms, and is probably not dependent on a single cause. Its treatment cannot be discussed here as the symptoms are too various and these call for separate treatment.

The vomiting of pregnancy often taxes the resources of the obstetrician, and occasionally it cannot be relieved by any means short of terminating the pregnancy. It would be profitless to enumerate all of the drugs which have been suggested for the relief of this symptom, for such a list would be little less than a catalogue of the materia medica. Hygienic and dietary measures appear to be the main dependence in such cases. Psychic influences play an important rôle in this condition. Cerium oxalate gained a certain degree of popularity in the relief of vomiting from this and other causes, but there is no evidence that it has any therapeutic value.

Nausea and vomiting which result from indigestion require rest for the stomach, which should be emptied by washing with a weak alkali if the vomiting does not suffice to remove mucus. A weak solution of sodium bicarbonate may serve the double purpose of dissolving the mucus and causing its removal by vomiting, when there is ineffectual retching.

When there is gastric catarrh, requiring protectives, bismuth subnitrate or subcarbonate may be used; these are preferably administered in the form of powders or mixtures and are not advantageously given in compressed tablets or even in the form of capsules. Acidity may be neutralized by lime-water, magnesia, or by a solution of sodium bicarbonate.

Depressants of the vomiting center include hydrated chloral, morphin and opium and cocain, and in fact, probably all hypnotics and general anesthetics.

EXPECTORANTS

The respiratory passages are lined with ciliated epithelium, and normally the secretions of the mucous glands are moved toward the mouth (or anterior nares) by the movement of the cilia, but when the secretions in the smaller air passages become excessive during inflammation, or when they become thick and tenacious, the cilia are incapable of effecting their removal, and coughing is induced. If the secretions become excessively viscid even coughing may be incapable of effecting their removal and it becomes necessary to liquefy them by increasing the secretion of mucus or by means of alkalies.

As previously stated, all nauseants increase the secretion of mucus, hence in practice we choose an agent which has a persistent nauseant action, with a minimum depressant effect on the central nervous system.

Antimony and potassium tartrate is absorbed very slowly from the gastro-intestinal tract, hence small doses suffice to induce prolonged nausea of slight degree, and it is commonly used in the form of a solution or the compound mixture of glycyrrhiza in the early stages of laryngitis and bronchitis when the secretion is usually scanty and the cough troublesome.

The choice of expectorants is often largely empirical; we do not know whether any of them stimulate the cilia to increased activity or not, and it has been suggested that some of them may act on the smooth muscles of the alveoli and terminal bronchioles in the lungs, increasing their peristaltic movements and forcing mucus accumulations into the bronchi, as the alveoli and the terminal bronchioles are not provided with cilia.

Many salts, including sodium chlorid, ammonium chlorid, and potassium iodid, increase the secretory activity of the mucous glands, effecting the liquefaction of the mucus through the alkalies contained in the secretions, and by diluting these with the increased fluids secreted.

It seems probable that the especial usefulness of ammonium chlorid as an expectorant may depend partly on the formation of very small amounts of ammonium carbonate in the bronchial mucous membrane, which is especially effective in liquefying tenacious mucus.

A cough which is merely sufficient to remove the secretions from the air passages does not call for treatment, but when there is considerable irritation with frequent coughing while the secretion is scanty, sedatives, such as codein, are indicated. In some cases it is desirable to increase the secretion by means of a nauseant while diminishing the irritation with a sedative to the point that the cough will just suffice for the removal of the secretion.

Patients frequently demand relief from cough when free secretion contraindicates interference.[1]

Excessive bronchial secretion may be lessened in various ways; atropin depresses the vagus endings in the glands; various volatile oils including the oils of turpentine, of cubebs, and of copaiba are sometimes used, but terpin hydrate has almost completely supplanted the volatile oils for this purpose. Balsam of Peru, benzoin, creosote and other irritants are used in this way.

Syrup of tolu and syrup of wild cherry are little more than vehicles, the hydrocyanic acid in the latter being present in the merest traces and without therapeutic effect.

The compound syrup of white pine of the National Formulary contains chloroform and morphin in addition to extracts of white pine, wild cherry, sanguinaria and other substances—a typical "shot-gun" mixture of nauseants, depressants of the respiratory center and stimulants of the bronchial mucous membrane.

Sore throat is best treated with gargles, sprays, or demulcents in the form of lozenges. A dilute solution of hydrogen peroxid is useful for cleansing the throat, or a hot 5 per cent. solution of potassium chlorate may be used as a gargle; to this may be added a few drops of solution of ferric chlorid. Small ulcers or areas of inflammation in the throat may be swabbed with cotton dipped in a mixture composed of one part of solution of ferric chlorid to ten parts of glycerin.

The official lozenges of ammonium chlorid are useful in treating sore throat but it is not easy to explain the effect of the ammonium chlorid in that case. Lozenges of elm bark allay slight irritation of the throat.

There are few conditions in which self-medication and its unfortunate consequences are more common than in coughs and "colds," and there is a striking similarity between the composition of nostrums advertised to physicians in numerous medical journals and that

1. The following incident illustrates the unfortunate results of interference in such cases. A patient suffering from a cough with free secretion received a mixture containing morphin, and expressed his satisfaction at the prompt relief afforded. Later he felt greatly discouraged because (as he supposed) he had "caught fresh cold," which he attributed to his low resistance. In fact, the morphin suppressed the cough while the secretion continued, becoming purulent, and the necessary cough returned when the effects of the morphin had passed away.

of the patent medicines, so-called, which are advertised directly to the public. It is obvious that it matters little, so far as the consequences are concerned, whether the patient doses himself with Ayer's cherry pectoral or Jayne's expectorant, or has compound syrup of cocillana or glyco-heroin (Smith) prescribed for him by a physician.

DOSAGE

The nauseant dose of several of the emetics has been given. The dose of ammonium chlorid is commonly stated as from 0.3 to 1 gm. (5 to 15 grains) but it is much more frequently used in doses of from 0.15 to 0.2 gm. (2 to 3 grains). The troches of ammonium chlorid each containing 0.1 gm. (1½ grains) with extract of glycyrrhiza, tragacanth and sugar, flavored with tolu, afford a convenient form of treatment for sore throat. It may be prescribed for cough (laryngitis or bronchitis) somewhat as follows:

	gm. or c.c.	
Ammonii chloridi	5	℥ i
Syrupi acidi citrici	50	℥ iss
Aquae q. s. ad	100	℥ iii

M. Sig.: One teaspoonful every two or three hours.

Ammonium chlorid has a disagreeable taste which is disguised somewhat by the acidity of the mixture.

Ammonium carbonate is given in doses of 0.25 gm. (4 grains). Physicians sometimes overlook the acid character of syrup of squill and prescribe it with the strongly alkaline ammonium carbonate.

A nauseant and sedative may be prescribed together somewhat as follows:

	gm. or c.c.	
Codeinae sulphatis	0.5	gr. viii
Syrupi ipecacuanhae	30.0	℥ i
Aquae q. s. ad	100.0	℥ iii

M. Sig.: One teaspoonful every two or three hours.

One should avoid the use of too much of the sedative in such cases, as this will lead to the total suppression of the cough. Terpin hydrate is given in doses of 0.12 gm. (2 grains) in powder, capsules or dissolved in elixir.

Many of the patent medicines, so-called, which are sold directly to the public, as well as those which are advertised directly to physicians, contain saponin derived from sanguinaria or other source, and a sedative such as heroin or morphin. No ready-made mixture is suitable for any considerable number of patients, because the doses of nauseants and sedatives should be adjusted carefully to the needs of each patient.*

ARSENIC

Toxic doses of the strongly ionizable inorganic compounds of arsenic cause gastro-enteritis with vomiting, diarrhea and abdominal pain, these symptoms being commonly delayed for half an hour or more. The first symptom frequently is a feeling of constriction in the throat with difficulty in swallowing. The evacuations are normal in appearance at first but later become watery and contain shreds of desquamated intestinal epithelium closely resembling the "rice-water" stools of Asiatic cholera. The fluid, unlike that of simple diarrhea induced by saline cathartics, consists of the serum of the blood, or it may also contain some blood, and this loss of serum results in a train of symptoms closely resembling those of actual hemorrhage. There is weakness, dizziness, headache, cold sweat and collapse. The features are pale and shrunken, the pulse weak, the respiration deep, later depressed. The symptoms are intensified until coma and death occur. Convulsions may occur (asphyxial) or they may be absent. The urine is commonly diminished or totally suppressed, because of the increased viscosity of the blood and the lowered blood pressure. Death may result from either circulatory or respiratory failure, that is, either the heart or the respiration may fail first, but when both are affected so profoundly each reacts upon the other, so that one cannot say that either alone is the cause of death.

The gastro-intestinal symptoms have been attributed to the local irritant action of arsenic, but they are now considered as the effects following absorption, and are explained in the following way: Arsenic causes paralysis of the walls of the capillaries, and later those of the arterioles, especially of the splanchnic region, rendering them more permeable than normally, so that there is a copious effusion of serum or even of blood, into the tissues. After the administration of very large doses of arsenic to animals one may observe extravasations of blood beneath large areas of the peritoneum. The escape of serous fluid raises blisters beneath the gastro-intestinal mucous membrane, and this is soon desquamated with the escape of large amounts of serum into the stomach and intestine, causing the "rice-water" diarrhea. The diarrhea and its attendant pain and loss of water cause a great fall in the blood pressure, and this is later augmented by the direct action of the arsenic on the heart, should the patient survive long enough for this action to take place.

Such serious disturbances of the circulation are always attended with corresponding depression of the central nervous system; especially is this true when the circulatory changes are induced suddenly. One has only to recall the frequency of dizziness due to interference with the cerebral circulation when one rises suddenly from a sitting or recumbent position, to appreciate that the great loss of serum in arsenic poisoning and the resulting circulatory disturbance must cause a variety of secondary effects.

If vomiting occurs early the symptoms may be of almost any degree of severity, because much, or comparatively little, of the arsenic may be evacuated thereby, dependent partly on the amount which has passed into the duodenum, or the poisoning may take on an extremely chronic character, even from a single dose.

There should be little difficulty in diagnosing chronic arsenic poisoning following the typical symptoms of acute poisoning, or where it is known that a large dose of arsenic has been taken, but the symptoms resulting from the repeated administration of very small amounts are often obscure and require patience for their recognition.

The symptoms of acute and chronic arsenic poisoning are detailed in almost all text-books of pharmacology and materia medica, and every physician should familiarize himself with these symptoms because of the frequency with which this type of poisoning occurs.

It will suffice for our purposes at present to enumerate some of the symptoms of the chronic type, merely to show the necessity for more careful study than it commonly receives. The symptoms are sometimes divided into three stages; in the first there is lassitude, loss of appetite, and there may be nausea and vomiting. This stage might lead one to suspect the presence of typhoid fever. The intestinal symptoms

* Owing to lack of space the materia medica of this group is omitted from THE JOURNAL. It will be included when this series is issued in book form.

V. 19

may be present, or they may be absent. In the second stage there may be symptoms resembling those of a "cold" owing to the irritation of the mucous membranes of the larynx and nose and of the conjunctiva. Various affections of the skin are described as occurring in this stage, including a typical discoloration or blackening.

In the third stage there are disturbances of sensation and motion in the hands and feet, and peripheral neuritis, together with numerous other manifestations which require careful consideration. The symptoms are not sharply marked off in the stages mentioned, but many of those commonly described as belonging to the second or third may appear earlier than this classification would indicate.

When vague symptoms lead one to suspect even the possibility of chronic arsenic poisoning the urine should be examined for traces of the metal. Of course one would not expect to obtain evidences of the poison by the grosser tests, but, on the other hand, the most delicate tests enable one to detect the faintest traces of arsenic in the urine. Such traces have comparatively little significance unless this evidence is supported by others of great weight, because traces of arsenic may be derived from foods containing it, either as a natural or as an added ingredient.

Chronic arsenic poisoning is attended with degenerative changes in the walls of the capillaries and later in the intestinal epithelium, and in various organs, including the heart, liver and kidneys.

Icterus results from the changes in the liver, and effusions occur in various tissues, that into the eyelids being usually early and fairly characteristic. The damage to the heart may fail to attract attention in the presence of other symptoms, such as nephritis, to which the attention may be mainly directed if the true cause of the trouble is not suspected.

The toxicology of arsenic is interesting from various standpoints. It played an important rôle in the crimes of professional poisoners in earlier times, and it is still employed occasionally for purposes of murder and suicide. It lends itself, unfortunately, to the poisoning of one member of a household by another when small doses can be administered frequently, because, owing to its tastelessness and lack of odor, it does not arouse suspicion and is all too easily obtained in the form of rat poison. All arsenic preparations which might be used in this way should be colored distinctively by the addition of lamp-black or indigo which cannot be mixed with most foods without attracting attention.

Fortunately, the metal can be detected in the vomitus, urine and feces, and in the cadaver long after death, so that it is probable that few adults die of acute arsenic poisoning without the fact becoming known.

The treatment of acute arsenic poisoning requires further investigation. It was accepted for many years as an established fact that as soon as possible after a poisonous dose of arsenic had been swallowed the patient should receive a large dose of moist ferric hydroxid, or preferably, the hydroxid with magnesia, which can be prepared more conveniently and quickly, when the materials are at hand.

Serious doubt has been thrown on the value of this procedure during the past few years, and the stomach should be washed out as promptly as possible whether the iron antidote be employed or not. Active catharsis should be induced with magnesium sulphate solution in order to remove any of the poison that has passed into the duodenum. Since prompt purgation is necessary in such cases, a large dose of the dilute solution of magnesium sulphate should be administered — preferably a pint of solution containing about an ounce of the salt. Naturally, purgatives are contraindicated after the intestinal symptoms have developed.

The elimination of arsenic depends somewhat on the way in which it is administered. When a toxic dose has been taken by the mouth the larger part may be evacuated with the vomitus, or with the washings of the stomach, and a large part of the remainder may be evacuated in the feces, especially if prompt purgation is induced. After absorption into the circulation arsenic may be found in almost all the body tissues. Elimination goes on very slowly indeed, so that months may elapse before it ceases to appear in the secretions, and some of it appears to be retained almost indefinitely.

A larger portion of the poison is said to be eliminated by the intestine after its oral administration, and a smaller part of the urine, but after the subcutaneous injection the kidneys eliminate more than the gastrointestinal tract. Diuretics should be administered after the subcutaneous injection of a poisonous dose if the patient is seen early, but caffein and theobromin will have little or no effect after the appearance of the "rice-water" stools because of circulatory disturbances previously mentioned; hence it would seem probable that the intravenous injection of a 2 per cent. solution of sodium sulphate, as mentioned in connection with strychnin poisoning, might be of benefit, but we are unaware of any experiments bearing on the subject.

The extraordinarily slow elimination of arsenic and its consequent tendency to accumulate in the body and to produce chronic poisoning are of especial interest in connection with the uses of arsenic in fabrics, and food preservatives.

A manufacturer of a food product used anilin to color it, the finished food as eaten containing about one part of arsenic in 20,000 million parts of food. He was probably unaware of the presence of arsenic in the anilin, and it would require about 1,000 tons of the food to furnish an amount of arsenic equal to a toxic dose for a man; nevertheless it was maintained that the practice was unlawful, though it could hardly be held that enough arsenic could be taken in that way to produce any perceptible effect in a life time, especially, as arsenic is frequently taken over long periods for its medicinal effect. Quite a different case was that of a manufacturer whose candy was found to contain six parts of arsenic per million. One pound of the candy contained as much as an average dose of arsenic for an adult, and its continued use in large amounts might very well cause symptoms.

In seeming contradiction to the preceding statement is the well-known fact that the administration of small and increasing doses of arsenic by the mouth leads to a higher degree of tolerance, apparently through an acquired resistance to absorption from the gastrointestinal tract, for such tolerant animals are not more resistant than others to arsenic administered subcutaneously. Remarkable stories of tolerance are commonly told of the arsenic eaters of the Tyrol.

As little as 0.1 gm. (1½ grains) of arsenic has proved fatal, but very much larger oral doses have been survived, and if vomiting occurs within less than half an hour after a fairly large dose has been swallowed the chances of recovery are fairly good, but of

course one cannot depend on this alone, and other treatment should be instituted, as previously stated. There is an unfortunately widespread belief among the laity that larger doses of arsenic may be safer than smaller, but toxic ones. This is doubtless based on the fact that large doses do occasionally induce emesis in time to save life, while smaller doses may prove fatal.

In view of what has been said of the widespread use of arsenic in the arts, in medicine and in foods, with the consequent frequency with which at least small amounts may be taken without the knowledge of the patient, and the extreme slowness with which elimination takes place, it is obvious that the detection of traces of arsenic in the excreta or in a cadaver does not prove that observed symptoms or death resulted from arsenic in a given case, and one will understand the necessity of a careful study of the actions of arsenic before expressing opinions that may be of far-reaching importance.

The administration of small amounts of arsenic to young animals may cause them to grow more rapidly than other members of the same litter that receive the same food without the arsenic. Several observers found that the bones of the animals that received arsenic were longer and thicker than those of the controls; that their fur was glossier and other evidences of rapid development were also observed, but these effects are not always obtained and other investigators came to different conclusions with regard to the effects of arsenic on metabolism. Poisonous doses cause fatty degeneration in various organs, and other disturbances of metabolism.

Various explanations have been offered to account for the more rapid growth observed as the result of the use of arsenic, but it seems possible that the actions on the capillaries and the effects on the general circulation together with the stimulation of production of red blood corpuscles or of hemoglobin are concerned in the effects on metabolism.

It also seems possible that arsenic may serve to correct some adverse conditions entailed in those feeding experiments in which the greater growth was observed, for it does not seem probable that arsenic would influence growth favorably if the animals were kept under the best conditions of living and exercising in the open air. At least, no one would think of advising the routine administration of arsenic to healthy little children living under hygienic conditions.

Certain of the organic compounds of arsenic which ionize but little are much less active than the inorganic compounds that have been discussed. Cacodylic acid, which differs from arsenic acid by having two methyl groups in place of two hydroxyls of the latter, has long been known, the sodium salt having been introduced about fifty years ago. Sodium arsanilate was introduced into therapeutics in 1902 under the name of atoxyl under the mistaken impression that it was nontoxic. It exerts the arsenic action, though less violently than arsenic trioxid in equal weights, and in addition it is prone to cause blindness through atrophy of the optic nerve. When atoxyl was submitted to the Council on Pharmacy and Chemistry its composition was investigated, and it was shown that the arsenic is not present in the trivalent state as had been supposed, but in the pentavalent.

Following the introduction of organic compounds of arsenic, Ehrlich investigated a large number with the object of finding one capable of exerting the well-known trypanocidal action of the metal without the toxic action on the host, or at least of finding a compound in which the relative toxicity for the parasite and the host would permit of the administration of a single dose that would at once destroy all the microorganisms in the blood.

As a result of this search Ehrlich and his co-workers brought out salvarsan, or arseno-benzol, more correctly called arsen-phenol-amine hydrochlorid. It has also been named "606" in reference to the laboratory number given the compound.

From the results of the early studies it was announced that a single dose of salvarsan was capable of destroying all of the micro-organisms of syphilis in the human body in suitable cases. It was also highly extolled in the treatment of various other diseases, including relapsing fever, and at the same time it was said to be relatively harmless to man in the dosage advised.

The literature relating to salvarsan is already enormous, and while it is not feasible to review this even partially, it may be said that a single dose apparently effects a complete cure only when it is given shortly after infection, if at all, and that it is far from being harmless, numerous deaths being undoubtedly attributable to its use even with the most careful technic.

Unfortunately, the spirochetes of syphilis may become more resistant than normal to arsenic after repeated doses, and it is usually necessary to combine the use of arsenic with that of mercury.

Neosalvarsan is a soluble compound of salvarsan thought by some to be tolerated better than the original product.

THERAPEUTIC USES

Arsenic trioxid is applied to ulcerated surfaces as an irritant, but its use is attended with severe pain. It has long been used in domestic practice and occasionally by physicians as a caustic for the removal of malignant growths, in the form of pastes. The action cannot be controlled accurately, it is very painful and there is some danger of the absorption of a poisonous dose when it is applied in this way. Its use is not recommended. It has long been employed and is still used as an application to ulcerated surfaces and by dentists for destroying the nerves in carious teeth.

It is used internally in a variety of disorders in which its mode of action cannot be explained satisfactorily. For example, it is used in neuralgia of a periodic character, and in chorea, in which it is of doubtful value. It is used in anemia, in which it probably stimulates the organs involved (bone marrow) to a more rapid regeneration of the red blood corpuscles or the hemoglobin. It is also used in pernicious anemia, in leukemia and in Hodgkin's disease (malignant lymphoma, or hypertrophic disease of the lymphatic glands of the body, attended with anemia). In these diseases its temporary effects are often markedly beneficial, but relapses almost invariably occur.

It is often used to improve the nutrition when the disturbance results from obscure causes, but, of course, it is not suited for use in all of those cases.

It has been recommended for use in diabetes, but like other drugs, it usually fails in that condition.

Arsenic is said to be useful in various skin diseases, such as psoriasis, lichen planus, chronic eczema, pemphigus, dermatitis herpetiformis, chronic urticaria and disturbances involving the sweat glands. It must

be remembered, however, that the treatment of skin diseases by the general practitioner involves many difficulties because of the obscurity of the etiology in these conditions, hence they should be treated by dermatologists when they present unusual difficulties or conditions with which the practitioner is unfamiliar.

Attention has been called to the fact that the fur of animals used in experiments with arsenic was glossier than that of the controls, and horse dealers have long utilized this action of arsenic in improving the coats of horses. These results suggest the use of arsenic in man when there is faulty nutrition of the skin.

Acute inflammation of the skin contraindicates the use of arsenic.

The organic compounds of arsenic have a distinct field of usefulness in various diseases of protozoal origin, including sleeping sickness (trypanosomiasis), malaria, relapsing fever and syphilis, but the side actions, especially that on the optic nerve (with atoxyl), have greatly interfered with its use.

Arsenic has long been used in malaria, especially in the chronic forms which have resisted quinin, arsenic and quinin being commonly used together in those cases.

The cacodylate attained to some degree of importance many years ago when it was found that it exerts the actions of arsenic over a longer period than the inorganic forms and that it is less toxic.

Sodium arsanilate was used extensively for a time in the treatment of sleeping sickness but numerous cases of blindness resulted, and it has fallen into disuse for that purpose.

Salvarsan is widely used in the treatment of syphilis; it is given alone soon after infection or in combination with mercury in the later stages. It is also employed in the treatment of relapsing fever and in many other conditions, sometimes with good results, sometimes with harmful effects.

The results reported soon after the introduction of salvarsan raised hopes which subsequent experience proved were far too optimistic, but when the early literature has been discounted sufficiently we still have in it a valuable remedy.

Headache, nausea and malaise commonly follow the intravenous injection of salvarsan, the symptoms lasting for from twelve to twenty-four hours. Aside from these after-effects certain nervous effects have been observed. These symptoms — termed nervous relapse — are believed to be due to an increased activity of the spirochetes and they call for another dose of salvarsan or treatment with mercury.

Arsenic is sometimes used in the most diverse conditions including asthma, tuberculosis, bronchitis, leukemia, splenic anemia, and in numerous other diseases, and one is led to suspect that when improvement follows its use in those conditions it is merely a coincidence or that this improvement is attributable to the effects of arsenic on metabolism in general rather than to any direct effect on the diseased organs or the causes of the disease.

All forms of arsenic should be used cautiously or not at all in the presence of disease of the eye, especially of the retina, even if it be of syphilitic origin, because of its tendency to induce optic neuritis and blindness, but salvarsan is said to cause optic neuritis in few instances. Arsenic is contraindicated in severe cardiac and renal disease, and salvarsan cautiously used in syphilitic infants because of the danger from liberated endotoxins when the spirochetes are destroyed.

DOSAGE

For ordinary affections of metabolism or for a tonic influence arsenic trioxid is given in doses of from 0.001 to 0.002 gm. ($\frac{1}{60}$ to $\frac{1}{30}$ grain). In diseases of the blood the dosage should be regulated according to the effect, but it is well to use as large doses as the patient will tolerate.

The various forms of inorganic arsenic are frequently administered in increasing doses until symptoms of mild intoxication appear. One may begin with 0.003 gm. ($\frac{1}{20}$ grain) of arsenic trioxid, three times a day, and increase by 0.001 gm. ($\frac{1}{60}$ grain) three times a day.

Solution of potassium arsenite and solution of arsenous acid may be given in doses of 0.2 c.c. (3 minims) three times a day, and increased by 0.05 c.c. (1 minim) three times a day. A slight toxic effect is indicated by nausea, colicky pains or a puffiness under the eyes. The presence of albumin in the urine may also be observed. Such symptoms may make it advisable to discontinue the administration of the drug for a time.

Solution of arsenous and mercuric iodids is usually administered in doses of 0.1 c.c. ($1\frac{1}{2}$ minims).

Sodium arsenate is given in doses of 0.003 to 0.005 gm. ($\frac{1}{20}$ to $\frac{1}{10}$ grain) three times a day and increased as with other preparations of arsenic.

Of the organic combinations of arsenic, sodium arsanilate, (atoxyl, soamin), is given in doses of 0.02 gm. ($\frac{1}{3}$ grain) gradually increased, and sodium cacodylate may be given in doses of 0.03 gm. ($\frac{1}{2}$ grain). The former of these two products is used only by injection; the latter is frequently administered hypodermically though it may also be administered by mouth.

The dose of salvarsan is 0.5 gm. ($7\frac{1}{2}$ grains). Since it is not suited for oral administration it must be given intravenously, subcutaneously or intramuscularly, but intramuscular injections have been followed in several instances by the toxic effects of arsenic; furthermore, the intramuscular injection is painful and is usually followed by a painful inflammatory nodule which persists for some time. It is seldom employed by those who have mastered the technic of the intravenous injection and no one should undertake to administer salvarsan intravenously without having mastered the somewhat difficult technic.

Salvarsan, being acid, is neutralized and suspended in a neutral fluid for subcutaneous or intramuscular injection. A clear solution in sterile alkaline fluid is used for intravenous injection.

The powder decomposes rapidly on exposure to the air, and suspensions and fluids intended for injection should be used at once. If any part of the contents of a tube remains unused when a dose is administered it should under no circumstances be mixed with a subsequent dose but should be thrown away. Even those tubes that are cracked before being used, permitting the action of the air, should be rejected. The water used for making intravenous injections should be distilled shortly before being used. Various forms of apparatus are advised by different authorities, but most of the apparatus employed for the injection can be had in any first class pharmacy or instrument maker's shop.*

(To be continued)

* Owing to lack of space the materia medica of this group is omitted from THE JOURNAL. It will be included when this series is issued in book form.

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

535 NORTH DEARBORN STREET . . . CHICAGO, ILL.

Cable Address . . . . "Medic, Chicago"

Subscription price . . . . . Five dollars per annum in advance

Contributors, subscribers and readers will find important information on the second advertising page following the reading-matter

SATURDAY, JUNE 26, 1915

On account of the large amount of space occupied by the Index in this issue of THE JOURNAL, certain departments have been omitted entirely and others abbreviated. The distance from THE JOURNAL office of the place of the annual session, together with the fact that this is the last number of the current volume, makes it desirable to omit the publication in this issue of any of the minutes. An effort will be made, however, to present in the next issue — July 3 — a complete report of the proceedings of the session.

THE INDEX

This issue of THE JOURNAL contains the index to the current, or sixty-fourth volume of THE JOURNAL, including the current medical literature which has been listed from week to week. Original articles in the leading medical journals of the United States and the principal foreign countries are included under the latter head.

In the author index appear the names of all who have contributed articles to THE JOURNAL or to any other journal listed in the current literature department, and the names of those whose papers are abstracted in the medical society reports in THE JOURNAL. In the subject index are complete references to all reading matter in THE JOURNAL, and references to original articles in all the domestic and foreign journals listed. To facilitate the use of the Index, not only are titles arranged under the subject of the article with double entry when necessary, but also there are numerous cross-references. The figures in boldface type refer to reading matter in THE JOURNAL.

The Index appears in pamphlet form[1] under the title "Guide to Current Medical Literature." This pamphlet contains, in addition to the author and subject indexes published in this issue of THE JOURNAL, the titles of the articles listed, arranged chronologically and by journals, as in the Current Medical Literature department. It is issued in separate form for convenience — to make it unnecessary to handle the bound volume of THE JOURNAL.

Just preceding the Index is a list of the journals indexed during the past six months. Any foreign journal, except those preceded by a star, will be lent by THE JOURNAL to subscribers and Fellows of the American Medical Association in the United States, with the understanding that such journal will not be retained by the borrower over three days. Requests for journals should be addressed to the Library of the American Medical Association, and six cents in stamps should be enclosed to cover the average expense of mailing. No domestic journal will be lent, as these can be obtained direct from the publishers as easily and as quickly as from THE JOURNAL. The addresses of the domestic journals are given.

It will be noted that in the Index in this number of THE JOURNAL there is a marked increase in the number of headings devoted to war subjects. The words "soldiers," "war," "army," "wounded," "wounds," "typhus," "tetanus," etc., are followed by numerous references occupying from three to ten times the amount of space devoted to them in previous indexes.

1. The Guide to Current Medical Literature may be obtained from the Association office at 50 cents a copy.

FOURTH OF JULY ANTICIPATIONS

The conflagration in Europe modifies all American events, and it will be of interest to observe its effect on our annual mimic warfare of July 4. Will the general depression of spirits and resources reduce the amount of explosive exuberance, or will the increased familiarity with gunpowder and bloodshed increase our notorious contempt of human life and suffering? THE JOURNAL has collected statistics on the injuries of the Fourth for twelve years, and the curve is now well enough established to indicate very clearly the annual extent of the old-fashioned celebration. Last year, for some unexplained reason, there was a slight increase in the total number of accidents and deaths, there being 1,506 accidents and forty deaths in 1914 as against 1,163 accidents and thirty-two deaths in 1913. Of the accidents last year, Pennsylvania with 487 and New York with 250 accounted for nearly half the total Independence Day devastation of the country, and it is in these two states especially that improvement must be made. Since THE JOURNAL first began to compile these statistics, Pennsylvania has always led in the number of accidents, usually by a wide margin. It has been suggested, perhaps facetiously, that this is the outcome of the possession of the Liberty Bell and the traditions of the Cradle of Liberty; if so, there is naturally a doubt whether the possession is worth the price. It has been certainly demonstrated that a community which wishes to free itself from this sort of destruction of person and property can do so. Not a few large cities have found it possible to pass through the Fourth without a single accident. It fol-

lows, then, that the number of Fourth of July accidents is the measure of the effort made by a community to rid itself of this long-suffered nuisance.

This year one factor may make for an increased number of accidents — the occurrence of the Fourth on Sunday, which results in two days of celebration in many communities. We must, therefore, be prepared to do our part in reducing the number of fatalities from these accidents. The reduction in the total number of deaths from tetanus to three in 1914, as compared with 150 cases in 1909 and 417 in 1903, is far out of proportion to the reduction in the number of accidents from which tetanus might have resulted. This indicates that the medical profession has learned how to prevent this most frightful sequel of injuries, and is fully alert to the dangers that reside in Fourth of July wounds. The European war has demonstrated on a hideously large scale the frequency of tetanus in unclean wounds and the great value of tetanus antitoxin in prevention, especially when its use supplements adequate surgical cleansing of the wounds. The importance of this point need not be dilated on, as was necessary twelve years ago, when neither the danger of tetanus nor the efficacy of antitoxin as a prophylactic was generally recognized. The same may be said of the intraspinal injection of tetanus antitoxin in developed cases of tetanus. This is now a recognized procedure which unquestionably gives results far superior to those obtained by any other method of treatment. At the recent meeting of the Association of American Physicians in Washington, Nicoll reported that of twenty patients treated in the New York City Department of Health by intraspinal injection of antitoxin, there had been but four deaths.[1] Improved results have also been reported from the military hospitals of Europe from the intraspinal administration of tetanus antitoxin.

It may be well also to repeat the instructions outlined a year ago,[2] for the prophylaxis of tetanus in Fourth of July injuries:

1. Carefully and thoroughly remove every particle of foreign matter from the wound, laying it open; an anesthetic should be given if necessary.

2. Dry the wound thoroughly, and paint it and the surrounding parts as carefully as possible with iodin, or else cauterize it thoroughly with a 25 per cent. solution of phenol (carbolic acid) in glycerin or alcohol.

3. Apply a loose wet pack, using a solution of some such antiseptic substance as boric acid or alcohol.

4. As soon as possible inject intravenously or subcutaneously 1,500 units of antitetanic serum and continue the injections if indications of possible tetanus arise.

5. In no case close the wound. Allow it to heal by granulation. Remove the dressings and packing each day and apply fresh ones.

1. Nicoll, Matthias: Intraspinal Administration of Antitoxin in Tetanus, THE JOURNAL A. M. A., June 12, 1915, p. 1982.
2. The Prophylaxis of Tetanus, Current Comment, THE JOURNAL A. M. A., June 20, 1914, p. 1971.

VACCINE THERAPY IN TYPHOID FEVER

It is difficult to arrive at a just estimate of the value of vaccines in the treatment of typhoid fever, because the evidence for and against their use is derived from two widely different sources. From a theoretical standpoint, such a procedure has little justification. It is well known that there is an extensive invasion of the blood by the infecting organism early in the course of the disease, and it seems reasonable to assume that these invading organisms furnish sufficient antigenic stimulus to cause the maximum antibody formation. On the other hand, if this antibody formation is delayed early in the course of the infection, vaccines may be of value in stimulating such a response. In the field of clinical medicine, many observers have reported striking results from the use of vaccines, and it is the common opinion of these clinicians that they are efficacious in the treatment of typhoid fever.

The clinical data in the literature pertaining to this phase of the treatment of typhoid fever have recently been reviewed by Krumbhaar and Richardson[1] of Philadelphia. This analysis includes more than 1,800 cases, and in 95 per cent. of these, favorable results were observed. Thirty-five of the thirty-nine observers concluded that the vaccine was useful as a therapeutic measure. In almost all instances, the course of the infection was favorably influenced, and in many series the mortality was reduced. In a series treated by Petrowitch, the mortality was 3.2 per cent., as compared with 8 per cent. in 220 unvaccinated patients. Krumbhaar and Richardson used vaccines in the treatment of ninety-three typhoid patients in the Pennsylvania Hospital during the past three years. Their results were so promising that they consider the use of vaccines an important procedure in the routine treatment of the disease. The symptoms were rarely altered beyond a transitory rise in temperature; but relapses and complications were diminished in frequency, and when vaccine treatment was instituted early in the course, there seemed to be a favorable influence exerted on the intensity of the infection. Since agglutination is often absent during the first two weeks of the attack, these investigators assume that antibody formation is often delayed, and that by the use of vaccines an early activity of this process can be brought about. The experiments of Gay and Claypole also suggest that there may be a hyperleukocytosis following the injection of a vaccine during the course of typhoid fever. Should these experiments receive confirmation, a good theoretical basis would be afforded for vaccine therapy in typhoid.

The type and dosage of the vaccine have had no apparent influence on the results obtained. Sensitized vaccines have been strongly advocated by Besredka,

1. Krumbhaar, E. B., and Richardson, R.: Am. Jour. Med. Sc., 1915, cxlix, 406.

Metchnikoff, Garbat and others, and on theoretical grounds such vaccines would be favored; but the majority of investigators have had good results with suspensions of dead bacteria prepared according to Wright's method. Although autogenous vaccines generally have been preferred, stock vaccines prepared from organisms selected for their high agglutinogenic power have been efficacious in the hands of many. Reports, however, have been so uniformly favorable with all preparations, that it seems as if the type used is of secondary importance. The dosage has also varied widely with different investigators. Semple, Waters, Petrowitch and others used small doses, while Foster, McArthur, Fletcher and Meakins obtained equally good results with large doses. Krumbhaar and Richardson gave 500 million as an initial dose and two or three larger doses at short intervals. They conclude that their results were more favorable in the cases in which large doses were given. The dosage, however, must be gaged by the general condition of the patient. When the patient is very toxic, only small amounts of vaccine can be used with any degree of safety. Previous mention has been made of the remarkable results obtained by Ichikawa from the intravenous injection of sensitized vaccines.[2] Using this method of inoculation, he was able to produce a rapid drop in the temperature to normal and often an early recovery. In his cases, mild intestinal hemorrhages occurred in a few instances following the injections; but these hemorrhages were no more numerous than in the unvaccinated patients. Subsequent investigators[3] also report favorable results from the intravenous method of administration of the vaccine, but they strongly emphasize the danger of a severe general reaction in some instances. Signs of collapse, severe diarrhea and intestinal hemorrhages are complications which have occurred simultaneously with the rapid fall in temperature, and in a few instances there was an unfavorable termination. The ultimate value of this method of administration of vaccines, therefore, is a question which further observations must determine.

Including the recent encouraging reports of Goldscheider and Aust,[4] Rhein[5] and others, the clinical evidence now at hand is derived from careful observations on about 3,000 cases of typhoid fever treated with vaccines. In almost all instances, it seems that some degree of favorable influence could be noticed from their use. The observations of Elmer[6] indicate that vaccines will not prevent the attack, once infection has begun; but it seems probable that their use early in the course of the disease modifies the duration and intensity of the attack. Furthermore, in complications, especially localized typhoid infections such as periostitis and cholecystitis, and in the treatment of typhoid carriers, vaccines are of limited value. In local infections in which there is a secondary invading organism, as in pneumonia and otitis media, typhoid vaccines are probably contraindicated.

Careful bacteriologic and serologic study is an essential prerequisite to vaccine therapy, which requires an exact etiologic and early diagnosis. Before the question of the efficacy of this form of treatment can be settled fully, the mechanism of the action of vaccines in generalized infections needs to be better understood; obviously, this is a problem in the field of experimental medicine. In the meantime, the results at hand, which indicate that, used with discretion, vaccines not only do no harm, but also may be of benefit, should stimulate to further and careful observations.

2. Present Status of the Vaccine Treatment of Typhoid Fever, Current Comment, THE JOURNAL A. M. A., Feb. 6, 1915, p. 518.
3. Biedl: Wien. klin. Wchnschr., 1915, xxviii, 125. Paltauf: Wien. klin. Wchnschr., 1915, xxviii, 125. Sladek and St. Kotlowski: Wien. klin. Wchnschr., 1915, xxviii, 389. Reibmayr: München. med. Wchnschr., 1915, lxii, 610.
4. Goldscheider and Aust: Deutsch. med. Wchnschr., 1915, xli, 361.
5. Rhein, M.: München. med. Wchnschr., 1915, lxii, 427.
6. Elmer, W. P.: Study of a Recent Typhoid Epidemic, with Especial Reference to the Use of Antityphoid Vaccines, THE JOURNAL A. M. A., April 3, 1915, p. 1147.

THE URINARY PROTEIN OF NEPHRITIS

It is conceivable theoretically that the protein present in albuminous urine is derived from the kidney or from the blood through damage to the capillary wall, or is a specific protein distinct from that derived from either the renal tissue or the blood. According to Fischer's widely discussed views, the urinary protein is derived, in part at least, from the renal cells, from which it has been dissolved under the influence of acids.[1] In connection with a current belief that the urinary protein found in nephritis represents serum protein rather than tissue protein, we referred some time ago[2] to the experiments of Salus,[3] who attempted to solve the question by the use of modern serologic or biologic immunity reactions. The technic in this field has become so refined that different proteins from the same animal may possibly be distinguished, and it therefore seemed likely that the controverted questions of the origin of the proteins of nephritic urine could be reached in the same way. Salus prepared a so-called organ plasma, a solution of tissue proteins obtained after completely removing the blood from various organs by Pohl's method. He found that such an antigen is entirely distinct from the antigens of the blood. More specifically, Salus took up the question of the origin of the protein in nephritic urine, and summarizes his results as follows:[4] Antiserum for human kidney contained neither precipitins nor complement-binding antibodies for either human serum or nephritic urine; hence the latter does not contain

1. Fischer, M. H.: Oedema and Nephritis, John Wiley & Sons, New York, 1914.
2. A Controverted Theory of Nephritis, Current Comment, THE JOURNAL A. M. A., June 20, 1914, p. 1971.
3. Salus, G.: Biologische Versuche mit Organplasma, Biochem. Ztschr., 1914, lx, 1.
4. We quote from a review by Cameron, A. L., and Wells, H. G.: The Origin of the Proteins of Nephritic Urine, Arch. Int. Med., May, 1915, p. 750.

the antigens characteristic of kidney tissue. Guinea-pigs sensitized with nephritic urine or blood serum did not give anaphylaxis reactions with kidney plasma, and animals sensitized with this plasma were reactive to serum or urine only when the plasma gave distinct reactions for blood. He therefore concludes that the protein of nephritic urine must be serum protein, and not renal tissue protein.

As these biologic reactions seem to offer the greatest promise of success in determining the identity of individual proteins, THE JOURNAL stated editorially that they place the burden of proof on those who maintain that the urinary protein of nephritis is merely the dissolved contribution of kidney cells subjected to an abnormal environment, rather than escaped blood components.

In criticism of these comments, Fischer[5] remarks that Salus concluded correctly from his experiments that the protein in the urines examined by him contained blood proteins. Fischer adds that no one has ever disputed this fact, for hemorrhage through gross rupture of the blood vessels and by diapedesis is common in all types of nephritis. With reference to the failure to obtain reactions indicative of dissolved kidney protein in the urine, Fischer remarks:

> In the face of the fact that it is difficult to prepare a specific antiserum even when kidney substance is used directly, such findings are hardly conclusive. The colloid chemists, moreover, know how alterable in consequence of mere laboratory handling are the reactions of proteins, and so some argument will be necessary to make those of solid organs and of organ extracts synonymous in their minds. Salus himself recognizes these difficulties.

A much more trenchant critique, pointing out the meager and variable character of Salus' fundamental experiments, has been published recently by Cameron and Wells.[6] They are quite unwilling to admit the conclusions of Salus on the basis of what they regard as inadequate proof. In a new attempt to secure further evidence on the disputed points relating to the origin of the urinary protein, these Chicago investigators note that part of the contradiction presumably depends on the difficulties inherent in the available methods for distinguishing, even by the biologic reactions, between different proteins coming from the same animal. A series of experiments by the anaphylaxis method gave no evidence of the existence of antigens in either urine or kidney distinct from each other or from the antigens of human serum. This result, as Cameron and Wells remind us, does not answer the question of the origin of urinary protein, but merely indicates the inadequacy of the anaphylaxis method for the solution of the problem. In fairness, therefore, the questions involved therein must frankly be regarded as still open for review.

5. Fischer, M. H.: Oedema and Nephritis, 1914, p. 446.
6. Cameron, A. L., and Wells, H. G.: The Origin of the Proteins of Nephritic Urine, Arch. Int. Med., May, 1915, p. 740.

DISEASE RESISTANCE IN PLANTS

In matters of health and disease, all living things have intimate relations. The factors that increase resistance to disease in plants can scarcely fail to interest physicians. Probably at least suggestive if not directly valuable hints for the prevention or inhibition of the contagious infections in human beings can be derived from a knowledge of the natural processes by which plant resistive vitality is encouraged. There is, too, a definite assurance that certain serious human diseases—tetanus and the gas-producing bacillary infections—are caused by micro-organisms fostered by plant life, and more than a suspicion that further study may reveal other similar relations.

Dr. Otto Appel[1] has considered the analogies between plant and human diseases, and the problem of resistance. The question of alternation of hosts for certain diseases is a plant as well as a human pathologic feature. The tapeworms and echinococci require an intermediate animal host, and prevention is much easier when the relations between the hosts of the two stages can be regulated. When rust appears in a pear orchard, the danger may be removed by eliminating all juniper trees from the neighborhood, the juniper being the host for the alternate stage of the fungus. The same measure must be adopted to assure prevention in the case of red rust of wheat in countries in which the fungus does not reinfect the wheat directly, but grows in the spring on the barberry. This serious scourge has practically disappeared from Germany since the removal of all barberry and mahonia bushes from districts in which wheat is grown.

Dr. Appel declares, in words familiar to physicians of human maladies, that it is more difficult to cure a plant already diseased than to prevent the disease. Only in rare cases is the method of "cure" known. Plants are not organized like animals, and in most cases it is impossible to influence a central system. Even with that possibility, physicians find "cures" difficult enough. Some of the adjuvants in the treatment of disease in plants are suggestive of phases of our medical problems. The cure of fungous diseases of different trees by giving the roots an abundant water supply is an example of treatment based on the principle that "many fungi are unable to grow in tissues which show a high water pressure. In dry soils the water content is kept on a low basis, and this favors the attacks of the fungus." Observant physicians have found this principle, so useful in limiting plant disease, of great value in the treatment of affections due to the growth of low plant life in the human intestines. A dry diet often seems to favor putrefactive processes, while the free taking of fluids not only affects constipation favorably in a mechanical way, but also lessens the growth of disturbing micro-organisms in the intestines.

1. Appel, Otto: Disease Resistance in Plants, Science, May 28, 1915.

More important still is the securing of varieties of disease-resistant plants. The method has long been understood, but the application of the principle is only now being successfully applied. The plant specialists, however, are much farther advanced in the solution of their problems than are the eugenic specialists. Of the different species of wheats, the difference in resistance to various serious affections is very marked. As a rule the Western European varieties are resistant, while many of the Eastern varieties are liable to rust. In both regions, however, there are marked exceptions, and the plant found in Palestine some years ago, which has sometimes been regarded as the ancestor of our common cultivated wheat is, curiously enough, a non-resistant species, showing by its survival that individual vitality may surmount dangers that would seem inevitably to doom a plant variety. The subjection to certain diseases of the plants of a region hitherto spared the special contagion is sometimes followed by serious devastation among crops. The corresponding incident in human beings was well illustrated by the ravages of smallpox, of tuberculosis and even of measles among the American Indians when these diseases were first introduced on this continent by the Europeans. Nature has gradually selected the disease-resisting varieties among human beings, so that a certain immunity has developed among peoples long subjected to the contagion of particular diseases.

From a chemical standpoint, the facts concerning plants are suggestive to the student of human disease and immunity. Dr. Appel says:

> A glance at sugars and acids shows that these substances also exert an influence in disease resistance. The presence of benzoic acid in *Vaccinium vitis idaea* is supposed to be the cause of its resistance to fungous diseases. In the same way the tannins have a relation to resistance. This was shown by Behrens in his work on fruit decay, and confirmed by Cook and Taubenhaus. On the other hand, sugar favors the growth of fungi, as is shown clearly in the case of apples and pears. Henneberg even claims immunity for some varieties of potato from certain diseases on account of their high sugar content, but this has not been established beyond doubt.
>
> Finally, the enzymes exert a definite influence on immunity, the oxydases taking the lead. These ferments work directly or indirectly by producing resistant chemical substances.

Everywhere in nature, similar forces are at work, and the same problems must be solved. The outlook for a solution of the involved questions of disease resistance and immunity is more promising when it is seen that many scientific investigators are working from different sides. The most important development of modern biology came when the great principle of the existence of cells was transferred from botany to zoology by Theodor Schwann at the beginning of the nineteenth century. When Virchow took the further step of applying the cell doctrine to pathology, he made perhaps the greatest advance in modern medicine. He used to declare in later life that when these two far-reaching developments were made by himself and Schwann, the rising generation of scientific investigators in Germany were quite as much interested in botanic problems as in microscopic anatomy. It was this breadth of interest, he declared, that gave them the larger outlook which enabled them to look beyond the bounds of what had been hitherto known to newer phases of knowledge.

SOME FACTS ABOUT INSENSIBLE PERSPIRATION

However varied and important the physiologic activities of the skin may be, they usually receive scant consideration in treatises on the functions of the body or in so-called systems of medicine. This is unfortunate for many reasons, and particularly because it tends to inculcate a sort of disregard for certain properties and performances which are peculiar to the cutaneous surfaces and not without significance in medical practice. The sensory nervous mechanism involved in the covering of the body plays a highly important rôle by rendering us appreciative of our environment and responsive to a variety of influences that are wont to react on us. Much of our life of sensation is bound up with the structure of the skin, and many of our reflexes are initiated in relation to it.

These are only a few incidents in the functions of the skin. Its participation in the regulation of temperature all too often lacks appreciation, if one may judge by many misguided practices which are current in connection with the hygiene of clothing and ventilation. Although the sweat glands were discovered by Malpighi[1] as early as 1687, it required a rediscovery[2] of them in man in 1834 to direct attention to the functional possibilities which the secretion of water on the external surfaces of the body actually presents. Even then for some time doubt remained as to whether the glands are concerned with a specific output of water rather than with such activities as the sebaceous glands are now known to represent.

Ever since the days of Sanctorius (1614) the expression "perspiratio insensibilis" has been in use. For him it represented essentially the loss of body weight which could not be accounted for by the visible and weighable excreta. In part this loss obviously is due to a removal of water through pulmonary respiration, together with the excess of exhaled carbon dioxid over absorbed oxygen. There remains for consideration the losses through the skin, some of which become apparent in the form of sweat.

Can water be lost through the skin in any way other than by the mechanism of the sudoriferous glands? Is there a true insensible perspiration represented by a purely physical transport of water through the skin

1. Malpighi: De externo tactus organo, in his Opera omnia, 1687, pp. 203, 298.
2. Brechet and Roussel de Vauzeme: Ann. d. sc. nat., 1834, ii.

into the surrounding medium? Of course it has long been recognized that even where no visible drops of sweat collect on the cutaneous surfaces, water may be, and usually is being, vaporized from them. It is quite conceivable, however, that in such cases evaporation may keep pace with sweat production and thus give an impression of insensible perspiration without the intermediation of the cutaneous glands.

The longstanding uncertainty respecting the origin of water imperceptibly eliminated from the skin was dispelled by a series of observations on human individuals in whom an unusual anomaly of this organ exists. Loewy and Wechselmann[3] have had the exceptional opportunity of studying subjects in whom a defective development has resulted in complete absence of skin glands, so that both sweat and sebaceous secretion were lacking. Here, then, it became possible to investigate the occurrence of loss of water from the skin independently of sweat formation. It was found that such sweat-free persons may experience considerable output of water through the skin. The variations of such a process of elimination are considerable. The quantity may reach 600 grams of water per day for the entire body. This represents a true insensible perspiration — a diffusion of water vapor — following definite physical laws.

The observations made in these unique cases representing, it may be noted, persons having ties of blood relationship and thus exhibiting a hereditary factor in their common skin defect, supplement the facts learned from normal individuals. As a result of the different investigations,[4] it is concluded that the physical loss of water varies greatly in different parts of the body — a fact only recently verified by Galeotti and Macri[5] at the University of Naples. They found the insensible perspiration to be greatest from the surfaces of the hand, somewhat less from the neck and cheeks, and still smaller in relation to the chest and back. According to Galeotti and Macri there is a correspondence, in some parts of the bodies of normal individuals, between the number of the sweat glands and the extent of evaporation from the skin. The parallelism in this respect is, however, by no means complete, so that there is no justification for assuming that the water evaporated is derived solely from sweat glands. Loss of water evidently also takes place through the epidermal layers of the skin, precisely as in the case of the sweat-free subjects of Loewy.

The temperature of the environment often exerts an influence on the evaporation from the cutaneous surfaces in the sense that with increased external temperature the degree of insensible perspiration is augmented. This is, however, not uniformly the case, according to Loewy.[4] He regards the condition of the skin as decisive for the extent of loss of water. With the same external temperature the output will vary with the momentary make-up of the skin, so that it is not regarded as extreme to attribute any influence of the external temperature to its more immediate effect on the cutaneous organ as a whole. In febrile patients the output of water is always greater than in the case of healthy persons.

So far as the loss of water by purely physical processes is concerned, the temperature of the surface layers of the body is the factor of chief importance.

3. Loewy, A., and Wechselmann, W.: Zur Physiologie und Pathologie des Wasserwechsels und Wärmeregulation seitens des Hautorganes, Virchows Arch. f. path. Anat., 1911, ccvi, 79.
4. Loewy, A.: Untersuchungen über die physikalische Hautwasserabgabe, Biochem. Ztschr., 1914, lxvii, 243.
5. Galeotti, G., and Macri, N. M.: Ueber die Perspiratio insensibilis unter normalen und pathologischen Bedingungen, Biochem. Ztschr., 1914, lxvii, 472.

Current Comment

HOW DOES URIC ACID EXIST IN THE BLOOD?

Novelties in the domain of uric acid chemistry and physiology continue to attract attention. Some recent studies by S. R. Benedict[1] of the Cornell University Medical College, New York, he believes, indicate the existence of uric acid in at least two forms of combination in the circulating blood. One part is "free" and represents the quota ordinarily determined by the current procedures for the estimation and separation of uric acid in the blood. In addition to this, Benedict has shown that vigorous treatment, such as is represented by hydrolysis with strong hydrochloric acid, makes it possible to obtain a decidedly larger yield of uric acid. This is taken as an indication of a "combined" uric acid. When ox blood, which has been the chief object of study, is allowed to stand in the presence of a preservative, it shows a marked and rapid increase in the "free" uric acid, with a corresponding decrease in the "combined" uric acid. This strongly suggests the possibility of enzyme action leading to a liberation of uric acid from some more complex combination. The magnitude of the different types is indicated by the figures obtained for ox blood, namely a "free" uric acid content of 0.5 mg. per hundred c.c., and a "total" uric acid content of about 7 mg. Perhaps even more surprising is the report by Benedict[1] regarding the distribution of uric acid between the serum and corpuscles. The results show that it is contained quantitatively in these formed elements. The serum seems to be devoid of traces even, in the case of the ox. This is not true in the case of birds, in which, on the contrary, it is present in the serum alone. One must remember, however, that uric acid plays an entirely different rôle in the metabolism of birds, in which it functions as the characteristic and preponderant end-product of nitrogenous metabolism. The facts alone deserve to be cited. According to Benedict, in ox blood the uric acid is for the most part, if not wholly, in combination and within the corpuscles; while in chicken blood, the uric acid circulates free and is contained in the serum. These findings, if

1. Benedict, S. R.: Studies in Uric Acid Metabolism, I, On the Uric Acid in Ox and in Chicken Blood, Jour. Biol. Chem., 1915, xx, 633.

they do not represent some subtle perversity of analytic procedure, call for extensive investigation. Concerning the nature of the alleged combination, the statement is made that it is certainly not protein in nature. If we repeat Benedict's very tentative hypothesis that uric acid, which can be further catabolized, exists in combination in the organism, while that which is to be eliminated as such circulates in the blood in the free state, it must be done with circumspect reserve. This has long been a favorite field for theorizing; and speculation should be subservient to experiment.

FACTS ABOUT RATTLESNAKE VENOM

Although rattlesnake poisoning has lost most of its former prominence as a cause of death in the United States, the toxic agent itself continues to be a source of scientific interest. Certain points in regard to its action have been debated. Thus it has been asserted[1] that the venom of the rattlesnake is toxic to this species itself. Recently, however, Welker and Marshall[2] of the Robert Hare Chemical Laboratory at the University of Pennsylvania, Philadelphia, have injected the fresh poison obtained directly from the living animal intramuscularly into the same species, *Crotalus adamanteus,* without detecting any untoward effects on the snakes. Rattlesnake serum may be somewhat toxic to certain laboratory animals, but not more so than is the serum of other species. It is said that snake venom exhibits little if any toxicity when it is administered by way of the alimentary canal. This has led to the assumption that the bile exerts antitoxic properties on it. Fraser,[3] for example, believed that snake bile had a marked antitoxic action on the venom—an effect exhibited likewise by ox bile in a less marked degree. Welker and Marshall[2] have found that the bile of the rattlesnake is not highly toxic for pigeons, with which they experimented; but they failed to demonstrate the slightest antitoxic power in this secretion.

1. Noguchi, H.: Snake Venoms, 1909, p. 264.
2. Welker, W. H., and Marshall, J.: The Toxicity of Rattlesnake Serum and Bile, with a Note on the Effect of Bile on the Toxicity of Venom, Jour. Pharmacol. and Exper. Therap., 1915, vi, 563.
3. Fraser: Brit. Med. Jour., 1897, ii, 125.

COAL-MINE FATALITIES

Nearly three quarters of a million men are at present engaged in the work of coal mining in the United States. The hazards of their occupation are familiar to every newspaper reader. Many persons fail to realize, however, that aside from the shocking accidents which come prominently into the public notice there are numerous causes of death which are not so often brought to the attention of the world at large. The loss of life in the coal mines is largely due to accidents underground, nine tenths of all the deaths being located there. Most of these are occasioned by falls of roof; many by mine cars and locomotives, by gas explosions and burning gas, and by coal-dust explosions; in lesser number are the underground fatalities by explosives, electricity and diverse other causes. About one tenth of the deaths occur in connection with the shafts and on the surface. In recently published statistics[1] the Bureau of Mines notes that the fatalities in coal mines in the United States in 1914 were 334 less than during the preceding year, the total fatalities being 2,451 as compared with 2,785 for 1913. The saving of one life every day in the year in any industry deserves more than passing notice. The principal causes of fatal accidents that show a material decrease were coal-dust explosions, 96 per cent., haulage 11 per cent., and falls of roof and pillar coal 10.6 per cent. These lower rates cannot be attributed to any single influence. They may, however, be assigned in part to any of the following agencies: closer and more careful inspection by the state inspector; better enforcement of laws and regulations by the operators; the miner's realization of the dangers attending his daily work, and his efforts to reduce accidents, because of the educational campaign conducted in his behalf; the more general use of safety lamps in doubtful mines; the use of permissible explosives; humidifying dusty mines; first-aid and rescue training in accidents which saves lives that might otherwise be lost; the enactment of industrial accident compensation laws and, last but not least, the spirit of cooperation on the part of all concerned. The growing evidence of the progress being made by modern industrial hygiene, even in fields in which inroads have been difficult, is a gratifying sign of the times.

1. Fay, Albert H.: Coal-Mine Fatalities in the United States, During the Calendar Year 1914, Bureau of Mines, March, 1915.

Medical News

(PHYSICIANS WILL CONFER A FAVOR BY SENDING FOR THIS DEPARTMENT ITEMS OF NEWS OF MORE OR LESS GENERAL INTEREST; SUCH AS RELATE TO SOCIETY ACTIVITIES, NEW HOSPITALS, EDUCATION, PUBLIC HEALTH, ETC.)

GEORGIA

Hospital Incorporated.—A petition has been made to the superior court of Screven County for the incorporation of the Screven County Hospital in Sylvania. The capital stock of the institution is to be $15,000.——The superior court of Tift County has received a petition for the incorporation of the Tift County Hospital at Tifton. The purpose of the corporation is charitable and is not organized for individual pecuniary gain.

Hospitals Dedicated.—The hospitals of the University of Georgia, Augusta, were dedicated June 1. The buildings, three in number, have been erected at an expenditure of about half a million dollars. The dedication exercises, which were held in the building, consisted of the presentation of the hospital by the mayor, the acceptance on behalf of the faculty by Dr. William H. Doughty, Jr., dean of the medical college, and an address by the Hon. J. C. C. Black, who paid an eloquent tribute to the physicians and nurses.

Hookworm Campaign.—The state is conducting a systematic campaign against hookworm, with the assistance of the Rockefeller Foundation. It has been decided to carry on the work in future by county organizations and already a number of counties have begun the work. Free examination and free treatment have been provided in a number of counties, and already a large number of persons have taken advantage of this arrangement. That hookworm is not the only parasitic disease prevalent is shown by the examinations of Dr. Charles R. Henry, Atlanta, and J. R. Webb, an assistant, in Gatoosa County, where among 550 persons examined forty-

one were found to have hookworm, forty-two ascaris and thirteen pinworm.

Personal.—Dr. Harry Rubin, Savannah, has been appointed house physician of the Fresh Air Home, Tybee.——The faculty and adjunct faculty of the Atlanta Medical College, which is to be merged next fall with the Emory University, gave a dinner, June 7, in honor of Dr. William S. Elkin, for many years dean of the college, at which a silver loving cup was presented to Dr. Elkin as a testimonial of his services to the college, the presentation address being made by Dr. Stewart R. Roberts, Atlanta.——Dr. George L. Loden, Atlanta, has been placed in charge of the Atlanta Municipal Tuberculosis Sanatorium, Battle Hill, vice Dr. Louis Hollander, Atlanta.——Dr. John C. White, Atlanta, has been appointed surgeon of the North Georgia Brigade, United Confederate Veterans.——Dr. Walpole C. Brewer, Atlanta, sailed for Europe on the *Canopic*, May 8, for the Mediterranean. Dr. Brewer expects to join the American Red Cross unit in Vienna.

ILLINOIS

New Hospital.—The new Belvidere Public Hospital, although not formally opened, is in operation. The institution is located in the Warren Rowan homestead. The president of the association is Dr. Alden Alguire, and the secretary, Dr. H. Eugene Delavergne.

Scarlet Fever at Joliet.—Under date of June 18 more than 200 cases of scarlet fever had occurred in Joliet with two deaths. The town was under strict quarantine and the schools with their 14,000 children were idle. Churches, theaters and other public places were closed and travel to and from the city restricted.

Personal.—Dr. Louis F. Morse, Cobden, is said to have suffered a slight cerebral hemorrhage, June 4.——Drs. John L. Taylor, Libertyville, and John C. Foley, Waukegan, with their families, started on an automobile trip to the Pacific Coast, June 15.——Friends of Dr. William J. Uppendahl, Peoria, gave a dinner in his honor at the Creve Coeur Club, June 7, over which Dr. George A. Zeller presided as toastmaster. Dr. Uppendahl sailed for Europe with the Chicago unit for service abroad.

Health Day in the Legislature.—The secretary of the State Board of Health has named June 16 as Health Day in the Illinois Legislature. On this day in addition to giving final passage to the vital statistics bill and the bill restoring jurisdiction over old licentiates practicing medicine or midwifery, two measures which will have an important bearing on the abortion evil in this state, the following were sent to the governor for signature: a bill for prevention of blindness from infections at birth; a bill relating to garbage disposal in small cities. A drainage bill and one relating to creation of small parks on behalf of the State Board of Health.

Chicago

Rush Graduation.—At the annual graduating exercises of Rush Medical College, June 16, a class of seventy-five was graduated and Dr. Edward Carl Rosenow delivered an address on "Recent Advances in Medical Research."

Alienists and Neurologists Will Meet Next Month.—The fourth annual meeting of the Alienists and Neurologists of the United States, under the auspices of the Chicago Medical Society, will be held July 12 to 17. About sixty papers are already on the program and in addition, there will be a half-day clinic at the city psychopathic laboratory on the morning of July 14, and on the next day an all-day meeting at the Chicago State Hospital, Dunning.

Medical Society Election.—At the annual meeting of the Chicago Medical Society, June 15, the following officers were elected: Dr. A. Augustus O'Neill, president-elect; Dr. Charles E. Humiston, secretary (reelected); Drs. Charles H. Miller, Charles C. O'Byrne, Douglas A. Payne, Fred L. Glenn and Jacob C. Krafft, councilors-at-large; and Drs. John J. Toeller, Edward J. Devine, Rachelle S. Yarros, Sadie Bay Adair and Louis H. Friedrich, alternate councilors-at-large.

Meeting of Rush Alumni.—The annual faculty banquet of Rush Medical College, to the graduating class and almuni, was given June 16. Addresses were made by Dr. J. B. Herrick and President Judson of the University of Chicago in which the development of Rush College as a part of the university was forecasted. Prof. L. Hektoen, acting for the faculty, presented a watch to Dr. E. C. Rosenow, who leaves the faculty to become a member of the Mayo foundation. Dr. B. McPherson Linnell has been elected president of the Rush Medical College Alumni Association; Dr. C. A. Parker, secretary; Dr. Elmer E. Kenyon, treasurer.

Upholds Milk Ordinance.—The provision of the milk ordinance, passed Aug. 14, 1912, requiring that milk must be cooled immediately after production and kept at a temperature not exceeding 55 F. from the cow to the dealer in Chicago, has been upheld in the suit of the city against the Northwestern Railroad Company. The railroad resisted the requirement that the milk must be kept cool while in transit on the ground that the city of Chicago had no power to regulate its traffic, but that such powers were reserved to the State Utilities Commission. The municipal court, Judge Trude, held that this department was a valid exercise of the police power of the city concerning an important food product.

Against Quackery in Advertising.—June 21, in the meeting of the Associated Advertising Clubs of the World, the chairman of the vigilance committee following the lead of the president, William Woodhead, recommended that henceforth quackery and fraud in advertising be held to "strict accountability"; and further that the associated clubs engage a salaried force of lawyers, detectives, physicians, chemists and other specialists to put suspicious advertising through relentless tests for the elimination of unsound factors. The recommendations were endorsed by the executive committee and the national commission and then unanimously by the convention. Subscriptions of over $2,000 were made on the floor of the convention for carrying out the purposes of the recommendations, and will be increased during the meeting.

INDIANA

Philanthropic Physician Dies.—News has just been received of the death on June 18 of Dr. Robert W. Long, Indianapolis, whose benefactions to the state have amounted to $245,000.

Advance in Sanitary Welfare.—The cities of Gary, Valparaiso and Indiana Harbor have appointed all-time health officers and Peru will soon follow their example.——Michigan City has recently established a municipal laboratory.

Personal.—Dr. Edwin G. Kyte, Seymour, has been commissioned as first lieutenant, M. C., Ind. N. G.——A banquet and reception was given at Evansville, June 11, for Dr. George W. Buckner, Evansville, United States minister at Iberia.

Sanatorium Site Bought.—The board of commissioners of Marion County has purchased a tract of ground of 25 acres near Oaklandon, about twelve miles from Indianapolis, as a site for a tuberculosis sanatorium. The cost of the land is $9,228.

MAINE

Meeting of Maine State Medical Association.—The sixty-third meeting of the Maine Medical Association was held at Poland Springs, June 9 and 10, under the presidency of Dr. Herman L. Bartlett, Norway. Portland was selected as the next place of meeting and the following officers were elected: president, Dr. Erastus E. Holt, Portland; vice presidents, Drs. Herbert B. Mason, Calais, and Harry A. Snow, Milo; and secretary treasurer, Dr. John B. Thompson, Bangor.

MARYLAND

Patients Transferred.—The Supervisors of City Charities transferred on May 21, one hundred patients from the City Detention Hospital at Bay View, Baltimore, to the Springfield State Hospital, Sykesville, thus reducing the number of patients at the Detention Hospital. Later a large number of negro patients will be transferred to the Crownsville State Hospital.

Clinic Dedicated.—The John Hubner Psychopathic Building and the Springfield State Hospital, Sykesville, was formally dedicated June 9. The speakers included Drs. Henry M. Hurd, Hugh H. Young and Lewellys F. Barker, Baltimore; Edward N. Brush, Towson, and Dr. Elmer E. Southard, director of the Boston Psychopathic Hospital. Mr. Hubner was presented by his fellow members of the board with a gold-lined silver loving cup.

Personal.—Dr. Thomas S. Cullen, Baltimore, who was operated on three weeks ago for gallstones at the Johns Hopkins Hospital has recovered and left for a Canadian island to recuperate fully.——Dr. John S. Davis of Baltimore, who was operated on for appendicitis by Dr. Richard H. Follis, Baltimore, at the Union Protestant Infirmary, has left the hospital.——Dr. William S. Thayer, Baltimore, who was operated on for appendicitis in the Johns Hopkins Hospital, June 4, left the hospital a week later and will recuperate in the north.

MASSACHUSETTS

Medico-Legal Society Meeting.—The annual meeting of the Massachusetts Medico-Legal Medical Society was held in Boston, June 8, and the following officers were elected: president, Dr. Frederick H. Baker, Worcester; vice-president, Dr. Oliver H. Howe, Cohasset; corresponding secretary, Dr. Frederick H. Thompson, Fitchburg; recording secretary, Dr. Harry M. Cutts, Brookline; treasurer, Dr. A. Elliot Paine, Brockton.

New Health Division.—The commissioner of health has established a new department to be known as the Division of Hygiene and has appointed Prof. Selskar M. Gunn of the Massachusetts Institute of Technology, as its chief. Among the duties of this department will be the direction of child welfare work, public health nursing, the promotion of traveling exhibits, the arrangement of public lectures and the distribution of health bulletins and pamphlets.

Personal.—Dr. Samuel H. Hurwitz, Boston, has been appointed instructor in research medicine in the George William Hooper Foundation for Medical Research of the University of California.——Alexander Swanson Begg has been reappointed secretary of the graduate school of medicine of Harvard University.——Dr. Richard C. Cabot has been appointed medical advisor to Radcliffe College.——Dr. George S. Graham has been appointed second assistant pathologist and Dr. Edgar M. Medler research assistant in pathology, at the Boston City Hospital.

State Society Meeting.—The Massachusetts Medical Society held its one hundred and thirty-fourth annual meeting in Boston, June 8 and 9, under the presidency of Dr. Charles F. Withington, Boston. The Shadduck lecture was delivered by Dr. Joel E. Goldthwaite, Boston, on "The Anatomic and Mechanistic Theory of Disease"; the annual discourse was delivered by Dr. Everett A. Bates, Springfield, on "Perplexities in Modern Medicine." The annual dinner and business meeting was held at the Copley-Plaza Hotel on June 9, and the following officers were elected: president, Dr. Charles F. Withington, Boston, (reelected); vice-president, Dr. Edmond F. Cody, New Bedford; secretary, Dr. Walter L. Burrage, Boston, (reelected); treasurer, Dr. Edward M. Buckingham, Boston, (reelected); and librarian, Dr. Edwin H. Brigham, Boston.

Changes in Massachusetts State Board of Insanity.—According to the Bulletin of the State Board of Insanity, the following changes occurred in the board and various state institutions under the supervision of the board in May: Col. Stanhope E. Blunt, Springfield, trustee of the Monson State Hospital, resigned. The following have also resigned: Dr. Arthur C. Zuck from the Taunton State Hospital, and Dr. Ernest J. Clifford from the same institution; Dr. Egbert W. Fell, first assistant physician, from the Psychopathic Hospital, and Dr. Edward T. Gibson as junior assistant from the same institution; Dr. George E. McPherson from the Foxborough State Hospital; Dr. William T. Hanson as medical inspector of the State Board of Insanity, May 20, to accept the position of physician in charge of the mental wards of the State Infirmary. Dr. Dora W. Faxon was appointed second assistant physician at the Foxborough State Hospital.

MONTANA

Banquet to Medical Society.—The annual banquet of the Fergus County Medical Association occurred May 15 at Lewiston. The dominant topic of discussion was "Unity in the Profession."

Personal.—Dr. Clarke S. Smith, Butte, has started for England for war service.——Dr. Robert E. Hathaway, Glendive, had a narrow escape from death by drowning, May 27, when the automobile in which he was driving plunged into a flooded creek.——Dr. William D. Madden has succeeded Dr. Thomas E. Murray as health officer of Great Falls.

Spotted Fever.—A case of Rocky Mountain spotted fever was reported May 15, from Carbon County, in the person of a farm hand who had been bitten by ticks while getting out timber in the mountains of Wyoming.——Another case was that of a real estate man of Great Falls, who was said to have contracted the infection while in Idaho.——The secretary of the State Board of Health announced, May 15, that there had been reported eighteen cases in the state. The disease is being observed in localities other than the Bitter Root Valley, to which the disease has been confined almost entirely in previous years. Ticks are said to be more plentiful this year than ever.

NEBRASKA

Will Organize Field Hospital.—Dr. Herbert H. Smith, Fremont, has organized at Fremont, a field hospital for the National Guard of Nebraska.

Correction.—Dr. Irving S. Cutter, Omaha, secretary of the College of Medicine of the University of Nebraska, advises that the appropriation made by the legislature for the new state hospital building to be erected on the campus of the college, was $150,000 and not $50,000, as stated in THE JOURNAL of May 22 and May 29.

Personal.—Dr. James D. Case, Dorchester, has been appointed secretary of the State Board of Health and state health inspector, vice Dr. William H. Wilson, Lincoln.——Dr. Hal C. Smith, Franklin, is reported to be seriously ill in a hospital in Lincoln.——Dr. Arthur C. Bunce, Omaha, who suffered amputation of the leg on account of septicemia, has recovered and resumed practice.

NEW HAMPSHIRE

New Officers.—Manchester Medical Society, June 11: president, Dr. Daniel C. Norton; secretary-treasurer, Dr. Melvin P. Badger.

Personal.—Dr. Charles P. Bancroft, Concord, resumed his position as superintendent of the State Hospital, May 17.——Dr. Daniel F. Wells, Exeter, celebrated his seventy-fifth birthday, May 28.

NEW YORK

Diphtheria in Home for Convalescents.—The Caroline Rest in Hartsdale has an outbreak of diphtheria which drove 100 convalescent mothers and their babies back to New York City.

Personal.—Dr. Elmer H. Ormsby, formerly lecturer in anatomy in Albany Medical College, has opened an office in Amsterdam.——Dr. Edmund C. Boddy, Rochester, sailed from New York, June 18, to take service with the Serbian Red Cross.

Memorial Meeting.—The meeting of the Medical Society of the County of Albany, June 10, was devoted to the payment of tribute to the memory of Drs. Samuel Baldwin Ward and George Gustav Lempe, and the adoption of resolutions regarding the death of these two members.

Joint Society Meeting.—A joint meeting of the medical societies of the counties of Allegany, Genesee, Livingston and Wyoming, will be held at Letchworth Park, Portage Falls, July 15. Papers will be read by Drs. Louis F. Bishop and William S. Bainbridge, New York City. Members of all county societies of western New York are invited to be present.

Field Secretary Appointed.—The National Association for the Study and Prevention of Tuberculosis has appointed Mr. Frederick D. Hopkins field secretary, and he will begin work August 1. He is a graduate of Syracuse University and has had experience in publicity and promotion work. He has recently been employed as an inspector by the New York State Board of Charities.

Interesting Number of Health News.—The May number of the *Monthly Bulletin* of the New York State Department of Health is devoted largely to the subject of the diseases of adult life and the increasing mortality at ages over 45. It is said that the statistics show that while the death rate in the periods of early life is decreasing, the rate after 45 is increasing steadily, due almost wholly to the degenerative diseases of the heart, blood vessels and kidneys. It is found that diseases of the heart at present are exceeded only by tuberculosis as a cause of death, and in one or two years the latter was exceeded by the former. Cancer is also on the increase as a cause of death in adult life. Papers by E. L. Fisk of the Life Extension Institute, and on cancer by Curtis E. Lakeman of the American Society for the Control of Cancer, call attention to these facts and emphasize the required measures of prophylaxis, as is also done editorially in the pamphlet and by graphic charts.

New York City

Hospital Physicians Organize.—The assistant attending physicians of the Willard Parker, Riverside and Kingston Avenue hospitals have organized a society for the study of infectious diseases. The first meeting was held at the Willard Parker Hospital May 4.

Hospital Service for Medical Inspectors.—The Municipal Civil Service Commission has agreed to require as a condition of eligibility for the position of medical inspector in the Department of Health twelve months of hospital experi-

ence. An examination for inspectors will be held at an early date.

Dog Muzzling Law Upheld.—The Appellate Division of the Supreme Court in March unanimously sustained the validity of the section of the sanitary code which provides for the muzzling of dogs on any public highway or in any park or place in the city of New York. The test case was known as the Knoblauch case.

Hospital Staff House.—The contract has been let for the erection of the medical staff house and nurses home for the Willard Parker Hospital and the building has been started. The building will be 100 by 83 feet, of concrete fire proof construction and will furnish quarters for thirty-five doctors and 115 nurses, each group being provided a separate entrance, halls, dining room, etc., complete. Swimming pools and gymnasiums will be features of the new building.

Wood Alcohol in Toilet Preparations.—Investigation by the inspectors of the New York City Health Department last year showed that more than one-third of the toilet preparations sold in the city contained wood alcohol, which is forbidden by the Sanitary Code. During the past two months more than 300 preparations taken from barber shops and manicuring establishments and supply houses showed only a small proportion containing this deadly poison. Systematic inspections will be continued.

Personal.—Dr. Benjamin Schwartz has been appointed Coroners' Physician to fill the vacancy caused by the resignation of Dr. Otto H. Schultze.——Dr. William S. Magill returned from Russia June 15.——Dr. William B. Giles sailed June 15 on the *Nieuw Amsterdam* for Falmouth en route for northern France where he is to be surgeon in chief of a British contingent supervised by Dr. Foster Kennedy, New York.——Dr. Frederick Tilney, Brooklyn, has been appointed professor of neurology in the College of Physicians and Surgeons in the city of New York, succeeding Dr. Moses Allen Star, who resigned last month after twenty years of service.——Dr. Ward J. MacNeal has been appointed director of laboratories of the New York Postgraduate Medical School and Hospital, succeeding Dr. Jonathan Wright, resigned.——Dr. Morris Fine has been promoted to adjunct professor of pathologic chemistry; Dr. Richard M. Taylor, to adjunct professor of pathology and Paul A. Schule, to lectureship of bacteriology.

PENNSYLVANIA

Laboratory Installed.—Dr. Francis M. B. Schramm, city bacteriologist of Johnstown, has installed a laboratory on the second floor of the city hall.

Hospital Enlarged.—Plans are well advanced for the enlargement of the capacity of Palmerton Hospital, from fifty to eighty beds. Dr. John W. Luther, surgeon in chief of the institution, is also burgess of Palmerton.

Personal.—Dr. James C. Gray, Cressona, is reported to be seriously ill at his home.—Drs. Louis T. Kennedy and Merchant C. Householder, Pottsville, who have been ill in Chicago, are improving and will soon return home.——Dr. Frederick P. Steck, Shamokin, is taking a trip to the Pacific Coast.

Prize Awarded State Health Department.—A grand prize has been awarded by the International Jury of Awards of the Panama-Pacific Exposition to the Pennsylvania State Department of Health, and Dr. Samuel G. Dixon, commissioner of health, who planned the exhibit, has been given honorable mention.

Philadelphia

Personal.—Dr. S. Lewis Ziegler, director of the Department of Health and Charities, has named Edward A. Lees as assistant director of that department.——Dr. S. Lewis Rubinsohn was operated on at Bushil Sanatorium, June 10.——Dr. William H. E. Wehner has been appointed medical director of the Fidelity Mutual Life Insurance Company, succeeding Dr. William H. King, resigned.

Graduation Exercises.—At the ninetieth annual commencement exercises of Jefferson Medical College, held in the Academy of Music, June 5, the valedictory address was delivered by Dr. Victor Clarence Vaughan of the University of Michigan on the subject, "A Doctor's Ideals."——At the annual meeting of the General Alumni Assocation of the Medico-Chirurgical College of Philadelphia, June 3, the principal address was delivered by Dr. Ernest LaPlace. Dr. William McNeary was elected president and Dr. Charles B. Reynolds, secretary-treasurer.

Fourth of July Precautions.—The safe and sane Fourth committee has planned the distribution of 50,000 pieces of literature to householders and to various schools and institutions, calling on parents and guardians to avoid fireworks. The committee will also have posters placed throughout the city calling attention to the danger attached to the use of explosives. The pamphlet will be illustrated showing a child injured by an explosive and will contain the words, "Will This Happen to Your Child?" Other posters will contain the words, "For Safety's Sake be Sane."

Post-Graduate Teaching Association Organized.—The Cooperative Association for Post-Graduate Teaching of Medicine in Philadelphia has recently been organized by more than 100 practitioners of Philadelphia, with Dr. David Riesman as chairman and Dr. George P. Ruller as temporary secretary. The objects of the association are stated to be to investigate and ascertain the resources for postgraduate teaching that exist in Philadelphia; so to arrange the courses offered by each hospital and college as to enable the students to spend each day in solid study or laboratory work, and the establishment of a central office in charge of the permanent secretary, where rosters of courses may be made and where all information will be listed.

OHIO

Medical Society Revived.—The Preble County Medical Society, which has been quiescent for about two years, has been revived and a meeting was held in Eaton, May 26, to elect new officers and recommence active work.

Health Surveys.—A health survey of Springfield has been commenced by Asst. Surg. L. R. Thompson, and Sanitary Engineer R. E. Tarbett, U. S. P. H. S.——Surg. Carroll Fox, U. S. P. H. S., has completed his health survey of Toledo and returned to Washington.

Room Quarantine Adopted.—After a successful test of the method by Health Officer Daniel W. Iford, Toledo, the city health board has adopted the plan of room quarantine in infectious diseases, and an order has been issued giving detailed quarantine instructions under this method of handling infections. This places the afflicted person in charge of a nurse or other member of the family who must be completely isolated from the other members. The latter are allowed to pursue their usual occupations.

Philadelphians Address Academies.—On May 21, Dr. Richard M. Pearce, Jr., professor of research medicine in the University of Pennsylvania, delivered an address before the Academy of Medicine of Cleveland, on "The Relation of the Spleen to Blood Destruction and Regeneration and to Hemolytic Jaundice." After the lecture a smoker was given at the University Club by the heads of the department of medical research and of the various laboratories of the School of Medicine of Western Reserve University.——Dr. John A. Kolmer, director of the Research Laboratory of Pathology of the University of Pennsylvania, was the guest of the Academy of Medicine of Toledo and Lucas County, May 14, and delivered an address on "The Mechanism and Diagnostic Value of Anaphylactic Skin Reaction."

Personal.—Dr. Thomas G. Farr, the oldest practitioner of South Charleston, was the guest of honor at a banquet before the Clark County Medical Society in Springfield, June 9. After the dinner Dr. Farr was presented by the Society with a leather covered easy chair.——Dr. Harry E. Welch, Youngstown, was elected a vice president, and Dr. Louis H. Frechtling, Hamilton, a trustee of the Ohio Society for the Prevention of Tuberculosis at its meeting in Columbus, June 7.——Dr. Chelsea A. Coleman, Dayton, has filed suit in the common pleas court for $5,000 damages on account of injuries to his legs and damages to his automobile, said to have been suffered May 4, last.——Dr. James H. Lowe, Piqua, has been elected president of the Miami Valley Health Officers Association.——Dr. Louis L. Syman, Springfield, who was operated on for appendicitis at the Springfield City Hospital, June 3, is reported to be doing well.——Dr. Reginald L. Cameron, Cleveland, has been appointed chief surgeon of the Republic Rubber Company and also placed in charge of the welfare department.——Drs. Lucian G. Locke and Charles W. Wendelken, Portsmouth, have been elected trustees of the Antituberculosis Society of Scioto County.

Cincinnati

Portrait Presented.—A portrait of Dr. Joseph Aub, prominent as an eye, ear, nose and throat specialist of Cincinnati, who died in 1888, was hung in the reception room of the

Cincinnati General Hospital, May 28. The painting was presented by the widow of the physician.

New Home for Academy.—Plans for the erection of a new home for the Cincinnati Academy of Medicine to cost $250,000 were discussed at a meeting, June 7. A building committee of five was appointed and it is planned to erect a building on Seventh, Eighth or Ninth streets with one floor for stores, the second, third and fourth floors for offices of physicians and dentists and the upper floors for meeting rooms, library, lecture rooms and laboratories for the Academy of Medicine.

Personal.—Dr. John H. Perry, assistant superintendent of Longview Hospital, has resigned his position to accept a similar post at the Hospital for Criminal Insane at Lima, Ohio.——Dr. Horace F. Tangeman has been appointed otolaryngologist to the Branch Tuberculosis Hospital.——Dr. John A. Caldwell, Jr., has been appointed junior surgeon and Dr. Edgar C. Steinharter, junior gynecologist to the Cincinnati Hospital.——Dr. Albert H. Freiberg has had conferred on him the honorary degree of LL.D. by Cedarville College, Cedarville, Ohio, on account of his distinguished services to humanity in the field of orthopedic surgery.

Emery Gift to the University.—Mrs. Mary M. Emery has made a provisional gift of $250,000 for the construction of a new building for the Ohio-Miami Medical College of the University of Cincinnati, conditional on the raising of a like sum to equip the new building. Mrs. Emery's munificent gift is in gratitude to the profession of medicine and with a desire to further its powers of alleviating the ills of humanity. The new building will be located immediately adjoining the new Cincinnati General Hospital on the north and close to the pathologic building of that institution. The new medical school will consist of a central four-story building and two three-story wings conforming in general architectural plan to the Cincinnati General Hospital. Active work is commenced on the raising of the additional $250,000, on the securing of which, Mrs. Emery's offer becomes available. Mr. Harry M. Levy has already given $50,000 toward this fund.

OKLAHOMA

Health Department Moved to Guthrie.—Permission having been granted by the governor, Dr. John W. Duke, Guthrie, state health commissioner, has moved the office of the State Health Department to Guthrie.

New State Board of Medical Examiners.—Governor Williams has appointed the following board of medical examiners: Dr. Ralph V. Smith, Tulsa, secretary; and Drs. Le Roy Long, McAlester; B. L. Denison, Garvin; Ernest B. Dunlap, Lawton; William T. Ray, Gould; Melvin Gray, Mountain View; and William L. Bonnell, Chickasha.

State Association Election.—At the annual meeting of the Oklahoma State Medical Association held in Bartlesville, May 11 to 13, under the presidency of Dr. John W. Riley, Oklahoma City, the following officers were elected: president, Dr. J. Hutchings White, Muskogee; vice presidents, Drs. Walter Penquite, Chickasha; John P. Sudderth, Nowata, and W. Albert Cook, Tulsa; and delegate to the American Medical Association, Dr. John W. Riley, Oklahoma City. Oklahoma City was selected as the next place of meeting.

Personal.—Dr. David A. Myers, Lawton, is recovering from injuries received when his automobile ran over him while he was cranking it when in gear.——Dr. Henry Cone, Maud, was acquitted on the plea of self-defense at his trial recently for shooting and killing a tenant on his farm. ——Dr. Leander M. Overton, Fitzhugh, was struck by an automobile and sustained a fracture of the skull, clavicle and a Colles fracture.——Dr. Clarence C. Shaw, Tishomingo, has been appointed state prison physician, succeeding Dr. John W. Echols, McAlester.——Dr. Joel R. Holliday, Oklahoma, has been appointed a member of the Board on Sanity, succeeding Dr. Ross D. Long, Oklahoma, who has been given an indefinite leave of absence by county commissioners, and has sailed for Europe.

OREGON

Personal.—Dr. Richard A. Nunn, Portland, sailed for Europe, May 8, and expects to be placed on duty in one of the English hospitals.——Dr. Charles J. Smith, Portland, was elected chairman of the State Board of Higher Curricula at its meeting for organization.——Dr. Shelly Saurman, director of the bacteriologic laboratory of the State Board of Health, has resigned and will locate in Burns.

College Adopts Higher Requirements.—The announcement of the University of Oregon, department of medicine, just received states that after Jan. 1, 1916, two years of collegiate work, including courses in physics, chemistry, biology and French or German, will be required for admission. There are now forty-three colleges and nine state licensing boards which have adopted this higher requirement.

Physicians Win Suit.—The suit brought by Iris W. T. Oliver against Drs. James P. and Brice R. Wallace, Albany, for alleged malpractice in setting a fracture of the shoulder, in which $25,000 damages were asked, was decided May 4, in favor of the physicians. The testimony showed that the treatment of the case was thoroughly scientific and in accordance with the latest and most approved method.

VIRGINIA

Hospital Notes.—The committee on plans for the new Alexandria Hospital has made a contract with an architect of Washington, for the preparation of plans for the building. ——Clergymen of Norfolk have united in a campaign to raise $25,000 to make up the deficit of the Protestant Hospital, Norfolk.

Health Association Meeting.—At the annual meeting of the Virginia Public Health Association, held in Lexington, May 10, to 12, the following officers were elected: president, Dr. John W. H. Pollard, of Washington and Lee University, Lexington; vice presidents, Drs. C. Curtis Hudson, Danville, and Thomas J. Pretlow, Newport News; secretary-treasurer, Dr. W. B. Brownley Foster, Roanoke, and assistant secretary-treasurer, Dr. Roy K. Flannagan, Richmond.

Alumni Election.—At the annual meeting of the Alumni Association of the Medical College of Virginia, Richmond, June 1, the following officers were elected: president, Dr. Lewis C. Bosher, Richmond; vice presidents, Drs. Achilles L. Tynes, Staunton; Thomas S. Hening, Jefferson; William K. McCoy, Gum Spring, and Richard C. Waldon; secretary, Nathaniel T. Ennett, Richmond; assistant secretary, Dr. James H. Smith, Richmond, and treasurer, Dr. Frank H. Beadles, Richmond.

Personal.—Dr. Allen W. Freeman, Richmond, assistant state health commissioner, has resigned to become epidemiologist in the United States Public Health Service.——Dr. Ennion G. Williams, state health commissioner of Richmond, was elected president of the Conference of State and Provincial Boards of Health of North America, at its meeting in Washington, recently.——Dr. William L. Dunn, Abingdon, has been elected surgeon of the William Jones Camp, United Confederate Veterans.——Dr. Harry T. Marshall, Charlottesville, of the University of Virginia, has been appointed a member of the state tuberculosis commission. This commission is to serve without pay and is to consider the question of tuberculosis in all its phases and to report to the next general assembly a comprehensive plan for the control of the disease.

WISCONSIN

Physicians' Building in Green Bay.—Contracts have been awarded for the construction of the Bellin-Buchanan Building, Green Bay. The contract calls for a building 66 by 105 feet and six stories in height, which is to be devoted especially to the use of physicians and dentists.

Hospital Notes.—Dr. Christian U. Senn, Ripon, has associated with him Dr. U. Senn, Milwaukee, and will establish a hospital in the near future. The building at the corner of Ransom and Blossom streets is to be remodeled for this purpose.——A permit has been issued for the construction of an addition to the Milwaukee Hospital for Contagious Diseases, which is to be erected at a cost of $90,000.

Sanatorium Notes.—Ground for a new tuberculosis sanatorium for Kenosha County was broken, May 19, and it is hoped that the construction of the building will be carried on without delay.——The trustees of the Milwaukee County Tuberculosis Sanatorium have asked the people of Milwaukee to suggest a name for the new institution. Suggestions are to be sent to Dr. Hoyt E. Dearholt, Milwaukee.

Personal.—Dr. Urban J. Durner, Milwaukee, has received an appointment as house surgeon in the Eye, Ear, Nose and Throat Infirmary of Middlesex Hospital, London.——Dr. Gustav Windersheim has been reappointed chairman of the Board of Health of Kenosha.——Dr. Frank I. Drake, head physician at the State Prison, Waupun, has succeeded Dr.

Charles Gorst, as superintendent of the Mendota State Hospital.——Dr. Norman Hoffman has been reappointed superintendent of the State Open Air Sanatorium for Tuberculosis, Wales.——Dr. Alfonse F. Kalkhoff, Milwaukee, fell on a sidewalk, recently, fracturing his left arm.——Dr. Gustavus I. Hogue, Milwaukee, has been elected president of the Northwestern Alumni Association of the Southwestern District of Wisconsin.

WYOMING

Personal.—Dr. Henry W. Greist, Casper, is suffering from complete paralysis of the left facial nerve, probably due to exposure.

Tick Fever.—Five fatal cases of Rocky Mountain spotted fever have occurred in Montana this year, to June 4, and there has been a great increase in the number of cases. Ticks are unusually plentiful on account, it is believed, of the extraordinary amount of rain throughout the spring months.

New Quarantine Order.—A new quarantine order, superseding that of April 1, has been issued by the governor. By this order it is permitted to ship into Wyoming, cattle, hogs, sheep and horses from the states of Washington, Oregon, California, Idaho, Nevada, Arizona, Utah, Montana, Colorado, New Mexico and Texas, if accompanied by a health certificate, and from North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Louisiana, Arkansas, Missouri, Iowa and western Minnesota, on special permit issued by the state veterinarian.

CANADA

Anatomy Professorship Endowed.—Dalhousie University, Halifax, N. S., has received a gift of $30,000 toward the endowment of a chair of anatomy. An announcement is made that this sum will be doubled in the near future.

Sanitary Corps Organized.—Dr. Thomas A. Starkey, Montreal, has organized a sanitary corps for overseas service, of which he will be in command. It will be composed of students of McGill University and will number twenty-eight men. They expect to leave for England shortly.

Ambulance Donated.—The telephone girls of Toronto have presented a motor ambulance valued at $1,800, fully equipped and ready for service to the Canadian Red Cross Society. ——The Hon. Charles Dalton of Charlottetown, P. E. I., has offered to provide a motor ambulance for Red Cross work at the front.

More Surgeons Needed.—The British War Office is asking for more doctors. Candidates must be British subjects, under 40 years of age and graduates of some Canadian medical college. They must pass the regular military service examinations, be members of the Army Medical Corps and vouched for by the authorities of that corps.

Ontario's Offer Accepted.—The War Office has accepted the offer of the Ontario Government to provide a hospital of 1,040 beds in England for wounded soldiers. There have been many applications for positions on this hospital. The following names have been mentioned as likely to receive commissions: Drs. Rowland B. Orr, Herbert A. Bruce, Herbert J. Hamilton and Harry B. Anderson, all of Toronto.

Personal.—Dr. Thomas P. Bradley, Sarnia, Ont., has volunteered for special service overseas with the Royal Army Medical Corps.——Drs. F. W. Manning and Charles R. Totton, Windsor, have been accepted by the Canadian Government for service with the Army Medical Corps in France.——Dr. Irving Heward Cameron, professor of surgery in the University of Toronto, has left for England to accept the position of honorary visiting surgeon on the staff of King George Hospital, an institution with 1,600 beds, recently founded. Professor Cameron will be associated with Sir Frederick Treves, Sir Arbuthnot Lane and other distinguished English surgeons.——Dr. Michel Lefevre, Maisonneuve, Que., has left on an extended trip to California.——Dr. E. Vincent Sullivan, St. Stephen, N. B., has left for Montreal to sail at an early date with the Army Medical Corps for Europe.——Dr. Harris C. Mersereau, Montreal, is going to the front in command of a field ambulance.——Dr. Alfred B. Atherton, Fredericton, N. B., has returned from an extensive trip to California.——Dr. Lorne D. MacIntosh, Hartland, N. B., has sailed for England to act as surgeon in the Imperial Army Medical Corps.——The Hon. Dr. Henri S. Beland, St. Joseph, Que., one time member of the Laurier Government in Canada, has been interned from Belgium where he was when the war broke out. He is now in Germany as a prisoner of war. Dr. Beland had been attending wounded Belgian soldiers in the castle of Capellan.——Dr. James E. M. Carnwarth, Riverside, Hopewell Hill, N. B., had an unusual experience on a recent professional trip returning from a night visit. His motor car ran into two moose lying on the road.——Dr. Harry B. Lawson, Rolling Dam Station, N. B., has departed for Montreal to sail for the war.——Dr. Alan H. N. Kennedy, Macleod, Alta., has been appointed medical referee for the province of Alberta under the Workmen's Compensation Act.

GENERAL

Red Cross Seals.—The American National Red Cross has placed an order for 125,000,000 Red Cross seals for 1915. New regulations in regard to procuring and selling these seals will soon be published in the Bulletin of the Red Cross.

American Surgeons Meet in Minnesota.—At the annual meeting of the American Surgical Association held in Rochester, Minn., June 9 to 11, the following officers were elected: president, Dr. Robert G. LeConte, Philadelphia; vice presidents, Drs. Charles L. Gibson, New York City, and Archibald MacLaren, St. Paul; secretary, Dr. John H. Gibbon, Philadelphia; recorder, Dr. John F. Binnie, Kansas City, Mo.; and treasurer, Dr. Charles H. Peck, New York City. The 1916 meeting will be held in Washington.

Throat, Nose and Ear Specialists Hold Meeting.—At the twenty-first annual meeting of the American Laryngological, Rhinological and Otological Society, held in Chicago, June 16, the following officers were elected: president, Dr. Seth MacCuen Smith, Philadelphia; vice presidents, Drs. William B. Chamberlain, Cleveland; John B. Rae, New York City; Robert C. Lynch, New Orleans, and Thomas E. Carmody, Denver; secretary, Dr. Thomas J. Harris, New York; and treasurer, Dr. Ewing W. Day, Pittsburgh. The gold medal of the society offered for research work was awarded to Dr. G. H. Cox, New York City.

Congress Postponed.—Dr. J. Riddle Goffe, New York City, president of the Seventh International Congress of Obstetrics and Gynecology, announces that the meeting scheduled for September of this year will be postponed until September, 1917. This decision was reached at a meeting of the American Executive Council of the Congress recently held in St. Louis. It was decided that the expenses thus far incurred to the congress should be deducted from the subscriptions of the members of the American Executive Council of America and that the subscriptions of all other members of the organization committee should be returned to them until money is again needed in the preparation for the congress.

New Regulation Under the Harrison Narcotic Law.—The following bulletin has just been issued by the Commissioner of Internal Revenue, interpreting Regulations No. 35, Supplement No. 2, of the Harrison Narcotic Law, requiring a separate application for registry and payment of special tax if the applicant has more than one place of business, with no exception.

Art. 1. The second paragraph of this article is hereby amended, effective on and after this date, to read as follows:

If the applicant has more than one place of business, or if, in any case, the applicant is engaged in more than one profession or business where any of the drugs above described are made, stored, or dispensed, a separate application for registry must be made, and a special tax must be paid, in each such case.

Bequests and Donations.—The following bequests and donations have recently been announced:

For the establishment of a hospital in Bluffton, Ind., $1,000, by the will of Herman Wicking, Ridgewood, N. J.

Chicago Lying-In Hospital, $100,000, from Mrs. Julius Rosenthal.

Maine General Hospital and Maine Eye and Ear Infirmary, Portland, each $50,000, contingent bequests by the will of John E. Martin.

St. Louis Skin and Cancer Hospital, the income of the estate of George D. Barnard, appraised at $2,000,000.

Montefiori Home and Mount Sinai Hospital, New York City, each $10,000; United Hebrew Charities, Guild for Crippled Children and New York Skin and Cancer Hospital, each $2,500, by the will of Mrs. Amelia Lavenburg.

St. John's Hospital, Brooklyn, N. Y., $2,000, by the will of Mrs. Julia E. Beals.

Episcopal Hospital, Philadelphia, $5,000, for the endowment of a free bed to be known as the William H. Richardson free bed, by the will of Alice H. Richardson.

St. Joseph's Hospital, Philadelphia, $5,000, for the endowment of a free bed in memory of the late Rear Admiral Jackson McElmell, U. S. N.; St. Agnes' Hospital, Philadelphia, $5,000, to endow a free bed in the name of the testator by the will of Thomas A. McElmell.

West Philadelphia Hospital for Women, donations of $5,000 each, from Miss Mary Burnham and Miss Elizabeth Shippens, and $1,000 by the will of Mrs. Theodore Lewis, all to be devoted to the Maternity Building fund.

Presbyterian Hospital, New York City, $30,000, by the will of Mrs. Evelina A. Meserole.

Red Cross Work in Mexico.—Two carloads of food sent by the American Red Cross to Monterey, Mexico, have been received and greatly appreciated by the starving people. More than 20,000 have already been fed.——Corn for 7,000 was supplied at the American Hospital at Monterey, on June 5.——Corn, beans and rice are the most urgent needs.——General C. A. Duval, general manager of the American Red Cross, has been conferring with Major-General Frederick Funston, regarding the direction of the Mexican relief campaign. He also visited the various border points to expedite and safeguard the handling of relief stores.——Consular agents throughout Mexico will cooperate with the Red Cross and the military authorities on the border in the forwarding of supplies.——Two additional cars of corn have been sent to Monterey.——The American Red Cross shipped on June 10, twenty-five cases of drugs and hospital supplies to the United States consul at Vera Cruz, to be forwarded to the Spanish, American and French hospitals in Mexico City.——Famine conditions are said to prevail at Vera Cruz and in the surrounding country.——At Jalapa conditions are said to be appalling. More than 2,500 women stood in line for the distribution of rations.——Acapulco, on the west coast, is practically without food supplies and the inhabitants are reported to be starving.——Shortage in all cereals is reported all over Mexico and in Mexico City, thousands are said to be in danger of perishing from hunger and epidemic diseases.——Smallpox and typhus fever are reported to prevail in the city of Mexico.

The Campaign Against Cancer.—The American Society for the Control of Cancer urges every state medical society to take an active part in arranging meetings for the spread of the latest knowledge among members and the public of malignant disease. The Pennsylvania State Medical Society has suggested that medical journals help in the propaganda and many of them will devote their July issues to the cancer problem. The American Society has recently restated its relation to the cancer campaign and to the various other organizations working along the same line. The national society has endeavored to work in harmony with other agencies and so to arrange its work and organization as not to duplicate efforts in cancer prevention. It organizes no local societies where existing agencies cover the field, and will not attempt to enter the field of biologic research already so well covered under the auspices of the leading universities. The society expects, however, to expand that feature of its work relating to the collection and collation of statistical data, which need to be improved both as regards their collection and publication. At the suggestion of the society the United States Census Bureau immediately began the preparation of a report on the cancer mortality in the United States registration area in 1914. In this report the deaths will be stated in detail under some thirty titles of organs and parts of the body affected, rather than, as hitherto, under the six general groups of the international list. This will conform to the plan of the Imperial Cancer Research Fund, making the data available in the same form as those of England and Wales. The bureau will also attempt to make a distinction between returns based on certain and on doubtful diagnoses, and to establish this is making inquiry of physicians reporting cancer cases as to whether the diagnosis was based on clinical findings alone or was established by surgical operation, microscopic examination or necropsy. Much of this work, it is believed, should be done in the first instance by registration officers or the boards of health of the various states where the original certificates of death are filed. The society urges on the various state officials the need of doing this work in order to insure the permanence of the improvement in the statistical study of cancer which has been inaugurated by the census bureau. The society is further interested in and will give special attention to special statistical studies of the geographic, racial and occupational distribution of cancer, and endeavor to collate on a uniform plan the records of the surgical treatment of the disease in the leading hospitals so that an authoritative answer may be available to inquiries as to what percentage of success is to be expected in the treatment of cancer in each of its phases and stages.

WAR NOTES

Swedish Hospital at Paris.—The Swedish colony in Paris has established a hospital within the premises of the Swedish church in the rue Guyot. The *British Medical Journal* states that the hospital makes a specialty of Swedish massage by experts. Dr. Périer is in charge of the hospital.

Typhus Conquered in Serbia.—Advices to the *British Medical Journal* of June 5 confirm the news that the epidemic of typhus in Serbia is now virtually extinct. On April 5, there were 8,198 cases of typhus at Nish and by April 18, only 948. The number of cases of relapsing fever had dropped from 7,693 to 4,861.

Philadelphia Unit Leaves for War.—The University of Pennsylvania expedition composed of doctors and nurses led by Dr. J. William White, sailed from New York, June 12, on the *St. Louis* for work in the American Ambulance, Paris. The medical members of the party are Drs. James P. Hutchinson, chief surgeon; Daniel J. McCarthy, neurologist; Drs. Edmund B. Piper, Arthur E. Billings and Peter M. Keating, assistant surgeons; Dr. Samuel Goldschmidt, bacteriologist; Drs. Thomas Galler and D. M. Davis, assistants, and four nurses.

Armenian Red Cross Fund.—Armenia joins Russia in the eastern part of Asia Minor, and 10,000 Armenian volunteers are now fighting in the Russian army. This number will soon be doubled, but they have no medical men except a few medical students from Kieff. Armenians all over the world have equipped and maintain the soldiers, but there are no Red Cross appliances of any kind. Thousands of refugees have crossed the border into Turkestan, 12,000 are known to be at one point. An appeal for a Red Cross and Refugee fund for the Armenians is published in the *Lancet*; the treasurer is Mr. H. A. Godson Bohn, 17 Holland Villas Road, Kensington, England.

New Motion Picture on Tuberculosis.—It is announced in the Bulletin of the National Association for the Study and Prevention of Tuberculosis that after several months of work the association, in cooperation with the Universal Film Co., has produced a new four-reel film called the "White Terror." It is said to be a production with "dramatic punch," carrying several lessons concerning the use of fake cures for consumption, the danger of bad housing and working conditions and the evils of political corruption as it relates to public health. As this film will be distributed in the regular service of the film company, which supplies half the theaters in the United States, it will be seen by a large number of persons.

The Touring Club and the War.—The efforts in recent years of the organized automobilists of western Europe to improve the roads have proved of signal service in the military operations in the last few months. The headquarters of the Touring Club of France are in the magnificent premises where was kept the safe supposed to contain the fabulous fortune of the Humberts. The members of the club are mostly fighting at the front, and the building has been devoted to the preparation of packets of gifts to be sent to the men on the firing line. Souvenir postcards, medals and little flags were sold to add to the funds for this purpose, all commemorating the big gun, "the seventy-fiver." They were sold by the thousands of members of the Touring Club for a few pennies each, and the *Lancet* states that special arrangements had to be made with the banks to deal with the huge amounts of small coins thus turned into the treasury of the club. Far over a million dollars had been realized by the first of June, and the reports are not all in.

Aid for Belgian Physicians.—The report of the treasurer of the committee of American physicians for the aid of the Belgian profession, for the week ending June 19, 1915, lists the following contributions:

Dr. L. O. Tarleton, 1st Lieut. U. S. A., Manila, P. I.	$ 5.00
Norwich Medical Association, Norwich, Conn.	25.00
Westmoreland County Medical Society, Mount Pleasant, Pa.	25.00
Elmira Academy of Medicine, Elmira, N. Y.	50.00
Dr. Angus McLean, Detroit, Mich.	30.00
Receipts for the week ending June 19	$ 135.00
Previously reported receipts	7,312.00
Total receipts	$7,447.00
Previously reported disbursements:	
1,625 standard boxes of food at $2.20	$3,575.00
1,274 standard boxes of food at 2.30	2,930.20
353 standard boxes of food at 2.28	804.84
Total disbursements	7,310.04
Balance	$ 136.96

F. F. SIMPSON, M.D., Treasurer,
5 Jenkins Arcade Bldg., Pittsburgh, Pa.

Repair after Wounds of the Jaws.—The *Lancet* reproduces an account of a visit to the Strassburg hospital where a

staff of specialists is striving to reduce to the minimum the ravages caused by wounds of the mouth and face. It is said to be the first that has ever been organized in any war for the treatment of wounds of the face and jaw. "The staff numbers fifty-five, and all the work (including the cooking), which is done by the wives and daughters of the professors, is performed without fee. The hospital itself is divided into two sections. In the first a dozen dentists examine the teeth of the soldiers, extract, and make plates. This work is carried out at the cost of the military authorities, who adopt the very reasonable point of view that a soldier with defective teeth cannot be thoroughly efficient. The remaining section of the hospital itself comprises two subdivisions—the operating theater and the department in which are made the prosthetic molds destined to replace the bones or sections of bone sacrificed in the operation, and the surgical work is entirely done by dentists, most of whom have taken their medical degree. The wounded are photographed and roentgenographed on their arrival and photographed before departure, and these photographs and roentgenograms will constitute a collection of the highest scientific interest." At the moment of the visit more than 200 soldiers were undergoing treatment there, and the results already obtained are said to be almost marvelous.

BERLIN LETTER

BERLIN, May 26, 1915.

Visit to Camp of Prisoners of War

A party of 400 Berlin physicians, May 25, visited the camp of war prisoners installed near Berlin on the large parade ground at Döberitz. About 9,500 prisoners are quartered there, housed in new wooden barracks, partitioned off. The camp is laid out in blocks, and the prisoners are quartered by nationalities.

Although the requirements as to food differ according to the nationality, the profession and other individual peculiarities, yet nowhere were visible signs of insufficient nourishment. Not a few of the captives appeared excellently well nourished. As is easily understood, the living rooms and especially the sleeping quarters are primitive. The governments now have to care for 1,400,000 prisoners in the various concentration camps. The prisoners keep in the open air almost all day long, and the open windows and doors provide for ample ventilation. Everywhere we found good air in the barracks.

All the prisoners are obliged to keep themselves clean. Each one is compelled to take a shower-bath every day, a simple but well-working shower-bath arrangement being installed in each barracks. Every three weeks the clothing of each of the prisoners is sterilized with hot air. There is a huge central establishment for washing the body linen, and in each block there is a separate wash-house where the captives can clean their clothes and linen.

Each captive receives daily 300 gm. of bread, with coffee, tea or soup in the morning; at noon, one-fourth liter soup, with vegetables, potatoes and 100 gm. meat; for supper, soup, with sometimes tea or chocolate. There is a cook-room in each block, where the meals are prepared in four large kettles. Near the cook-room there is a bar or canteen where articles of food and clothing and sewing materials are for sale at fixed, very low prices. Most of the captives are able to supplement the regular ration served out to them as they receive donations forwarded to them from their homes. A special pavilion is devoted to this package service, eight officials receiving and carefully examining the parcels and handing them over to the prisoners.

There are four latrines to each block. The cement floors of the closets are flushed with a perpetual flow of water sweeping the excreta at once into the sewer, so that there are no disagreeable odors in or around the latrines.

ARRANGEMENTS FOR THE SICK

Three pavilions in the camp shelter the sick, one for internal medicine, one for surgery and one for contagious diseases. Besides these there is an isolation pavilion, fifteen minutes' walk from the camp. The health of the Döberitz camp is very good; there were only nine inmates in the medical ward and ten in the surgical, none very sick, and the contagious pavilion was empty. In the isolation pavilion there were a few tuberculous French prisoners. Two Russian and two English army surgeons have charge of the sanitary and hygienic care of the prisoners.

HOW THE PRISONERS PASS THE TIME

At present there are only 3,500 captives in the camp, as 6,000 are being utilized in farm work in the neighborhood. The captives still in camp are also occupied in farm or road work or called on for service inside the camp. In special cases more freedom is allowed, as, for instance, in one small building where several artists are at work, painting portraits and other pictures, paints having been supplied them by gifts from friends at home. A large tent has been set up for a Russian theater, the stage setting artistically adorned by some of the Russian prisoners. There is a similar institution also for the English, and we had the peculiar pleasure of hearing an orchestra of English prisoners render the overture to Don Giovanni. The orchestra is only partly composed of professional musicians.

PARIS LETTER

PARIS, June 3, 1915.

The War

A NEW IMPROVEMENT IN THE TRANSPORTATION OF THE WOUNDED

The transportation of the wounded, which was the weakest side of the organization of the medical service at the beginning of the war, has since then been considerably improved. The removal of the wounded has been so far accelerated that at noon, April 29, soldiers who had been wounded at the Yser on the 28th were received at the station of La Chapelle, which is the distributing point for the entrenched camp of Paris. This progress is due in part to the greater number of medical service trains. There are at present more than 200 of these. It is also partly due to a change in method. For many months wounded men were transported like ordinary passengers, being fed and their wound dressed at the station infirmaries. Now there are three kinds of medical service trains: (1) trains called permanent, which are composed of special coaches for the exclusive use of the wounded; (2) trains called semipermanent, which are composed either of baggage cars arranged for reclining wounded men or of passenger cars with a side aisle (these coaches are arranged to receive both seated and reclining wounded men); (3) trains called improvised, made up of coaches or of baggage cars fitted up with apparatus for suspending litters and intended to receive wounded men who are unable to sit up (these last trains are utilized only for intensive evacuations).

To make of each train the hospital on wheels demanded by the medical service, however, certain indispensable features must be provided. The departmental instructions prescribe only the addition to the train of a restaurant car, which is to serve as an office, a pharmacy, a dressing room, a diet kitchen and a dining room for the staff. This solution, which answered as a makeshift during a period of transition, is really unsatisfactory. It is impossible to adapt to such various uses a single restaurant car. Moreover, each one of these cars weighs 37 tons. To carry one of them three coaches of wounded men must be omitted. Something better, therefore, is required. Commandant Carcenat, commissary officer of one of our stations, has endeavored to solve the problem. He has devised the transformation of an ordinary baggage car 9.5 or 10 meters (31 or 33 feet) long into either a dining car or a hospital car. The dining car comprises the kitchen, with stove, coffee urn, cupboard and pantry, and a dining room for sixteen men. The cost of fitting it up is about 800 francs ($160). The hospital car comprises three rooms: (1) a diet kitchen with a very small water heater surrounded by asbestos, capable of boiling 200 liters of water in an hour (this permits the preparation of hot drinks and of aseptic dressings at any hour of the day or night); (2) the pharmacy, containing indispensable remedies such as morphin and caffein, ampules of cocain and ether and antitetanic and antidiphtheric serums; (3) a very simple dressing room, but arranged according to all hygienic rules with an operating table composed of two tripods connected by a cross bar on which the litter is placed. Every soiled object is thrown into the furnace of the locomotive at the first stop. The cost of fitting up a baggage car as a hospital is about 1,100 francs ($220).

To increase the number of these moving hospitals as much as is desirable outside assistance is permitted. The city of Paris has just fitted up, at its own expense, seven baggage cars as kitchen and dining cars. The city of Lyons has done the same. Societies and private persons can easily collect the amount necessary for such refittings.

RESULTS OBTAINED AT THE SCHOOL FOR CRIPPLES AT LYONS

I mentioned in my previous letters (The Journal, March 13, 1915, p. 923, and May 15, 1915, p. 1671) various endeavors which have been made to reeducate cripples for vocations. M. Edouard Herriot, mayor of the city of Lyons and senator of the department of the Rhone, has just reported the results already obtained in the first Ecole professionelle de blessés at Lyons. The school has at present ninety-three pupils, eighty-five resident and eight nonresident. It gives instruction in the following subjects: (1) bookkeeping, stenography, typewriting, etc.; (2) shoemaking; (3) sewing; (4) carpentry and joinery, and (5) bookbinding. It is also proposed to lay out extensive grounds for the instruction of some of the war cripples in horticulture.

All the pupils employed in manual labor are obliged to give their evenings to courses of general instruction graded according to the previous education of the pupils.

The purpose of the school is to produce not merely passable workmen but model workmen, and to combat the tendency of crippled soldiers to seek for wretched little government jobs. In order to keep the pensioners as long as may be necessary to teach them the complete technic of their trade and permit them to become teachers, employers or foremen, they are given substantial inducements; that is, they are given free board, no claim being made on the allowance made them by the government, and at the same time they are permitted to receive the returns from their daily work.

IMMEDIATE TREATMENT OF WOUNDS OF WAR BY CONCENTRATED SOLUTIONS OF SEA SALT

At a recent session of the Société de chirurgie de Paris, Dr. Abadie of Oran reported good results obtained by treating wounds with concentrated solutions of sea salt which, being hypertonic, produced an exosmosis, thus bathing the tissues while promoting diapedesis. These solutions, unlike antiseptics, are not toxic for the cellular elements. After the wounds have been freely laid open and carefully cleansed, removing the dead and suspected tissues, Abadie irrigates freely with a 0.7 per cent. solution of sea salt and then packs the wound with gauze wet in the mother solution of from 14 to 28 per cent. A thick dressing is necessary because of the abundant serous effusion. This mode of treatment gives red and healthy wounds, in which infections are aborted at the start. Old wounds are deodorized and the general condition is not comparable to that ordinarily presented by severe wounds.

Dr. Morestin, surgeon of the hospitals of Paris and agrégé, has also made much use of salt but not in precisely the same conditions as those reported by Abadie. He has used it especially in the treatment of old wounds and particularly of varicose ulcers. The salt rapidly modifies wounds which are atonic or covered with exuberant granulated tissue. It gives them a healthy appearance and hastens repair. This treatment, however, has the disadvantage of being painful.

THE DANGER OF PUTTING TYPHOID AND PARATYPHOID PATIENTS IN THE SAME WARD

At a recent session of the Société médicale des hôpitaux de Paris, Drs. Jeanselme and E. Agasse-Lafont reported a case of successive infection first by the paratyphoid B bacillus and then by the Eberth bacillus, which raises an important problem of prophylaxis. A soldier brought back from the front who had been infected with paratyphoid B was placed in an isolation ward in which there were both typhoid and paratyphoid patients. The case first ran a normal course and then seemed to have a relapse, which was followed by a second relapse. The possibility was then considered of the complication being not a relapse but a new infection. Serodiagnosis with the Eberth bacillus, which had been negative during the first attack, was now found distinctly positive.

This fact seems to indicate that typhoid and paratyphoid patients should be separated, the two groups of patients being dangerous to each other, since the two diseases are absolutely distinct and neither immunizes against the other, as has been proved by vaccination. Prudence is all the more desirable since cases of paratyphoid are now extremely frequent, being even more numerous in certain regions than cases of true typhoid.

AN AMERICAN FIELD HOSPITAL

A field hospital of the type used in the American army has just been exhibited in Paris. It is due to the generosity of the Fahnestock family of New York. It consists of twenty-two khaki-colored canvas tents. Eight conical tents are for the use of the staff. Six oblong tents are to be used for the wounded; each tent can receive eighteen so that there is a capacity of 108 wounded. Five hospital tents have a double covering, a circulation of air between the two layers of canvas maintaining an even temperature within the tents. Three of these five are for operation rooms; the fourth is used as a pharmacy and the fifth is for the reserve medical appliances. Three tents are intended each to accommodate two officers. These twenty-two tents and their contents are placed on four trucks furnished by the French government. To this unit, which is about to go to the front, are attached ten large automobiles belonging to the American hospital of Neuilly. Each of these cars can carry four or five wounded men sitting and three who are unable to sit up. The great utility of this ambulance will be in seeking out the wounded at the first aid post behind the line of fire and transporting them rapidly after the first dressings to the stations.

PHYSICIANS WHO HAVE RECEIVED THE DECORATION OF THE LEGION OF HONOR

Among the physicians serving in the army whose names have been inscribed on the roll of the Legion of Honor are a certain number of professors and agrégés of our medical schools. Two of these nominations deserve particular mention. Dr. Chavannaz, professor of clinical surgery at the Faculté de médecine de Bordeaux, head physician of the ambulance of the army corps "has insisted, in spite of his age, on performing campaign duty; he has rendered the greatest services to the wounded by his operative skill and his organizing talent." Dr. Paviot, professor of pathologic anatomy at the Faculté de médecine de Lyon, "has, since the beginning of hostilities, directed an evacuation hospital under difficult circumstances with a technical competence and an initiative which are equalled only by his absolute devotion to the service."

LONDON LETTER

London, June 4, 1915.

The War

GERMAN AIR RAIDS

German airships have dropped incendiary bombs on Southend, on the estuary of the Thames, causing fires which were promptly extinguished, but not without the loss of lives of several women and children. They also reached some of the outlying parts of London with a similar result. Four adults—three women and one old man—and two children have perished. The incendiary material used is "thermit," which was originally a mixture of equal parts of iron oxid and finely divided aluminum. This mixture may be ignited by a match of magnesium wire ending in a small quantity. When started in this manner, the ignition spreads through the whole of the mixture, reducing the iron oxid to metallic iron, with formation of aluminum oxid, and evolution of an amount of heat sufficient to melt the iron. Thermit has been largely used to weld wrought and cast-iron objects and to mend fractures in machinery, the operation being carried out by surrounding the point to be welded with a metallic box filled with thermit. Better results have been obtained by modifications of the original formula, in which powdered aluminum and calcium, or a powdered alloy of these two metals, are used instead of aluminum alone.

THE WAR MEDICAL SERVICE

In his presidential address to the General Medical Council, Sir Donald MacAlister reviewed the position created by the great demand for surgeons of the new armies. He pointed out that our professional reserves, at no time large, have been drawn on to the full. Throughout the kingdom, organized efforts are in progress for such readjustments of civil practice as will liberate all who can possibly be spared for the medical service of the navy and army. In these efforts, the Scottish Emergency Committee and local committees of the British Medical Association, with the effective cooperation of members of this council, have taken a leading part. The services of qualified women have been freely offered and accepted for many of the places that are now vacant at home. Senior students enrolled in the combatant ranks have been recalled by the War Office and directed to complete their curriculum with a view to qualification for the Royal Army Medical Corps. From overseas have come

large numbers of our colonial colleagues, who are possessed of qualifications registerable in this country, and so are eligible for commissions in our army. Owing to a special regulation of the council, about sixty Belgian doctors of medicine have become legally qualified to practice in Britain and to occupy professional positions in public and other institutions. From all these sources we have obtained timely and valuable help, but they must be supplemented. If we are to make good the losses in the Army Medical Service we must accumulate larger reserves. The casualty lists and the lists also of awards for conspicuous gallantry testify to the magnitude of these losses. Inquiries as to the number of students actually in attendance on courses of medical study at the several schools show that, at the end of 1914, there were considerably over 1,000 fewer than in 1913. The recall of senior students from active service has had a favorable effect on the year now drawing to a close, but we must expect during the next few years a falling off of about 250 per annum in the number who become qualified as medical practitioners. Surgeons in Canada have been desirous of coming to the aid of the mother country, but have been hindered by difficulties connected with their local registration laws. Sir Donald MacAlister communicated with the various medical authorities concerned, and the response has exceeded all his expectations. From Ontario, British Columbia, Saskatchewan, Manitoba and Alberta came messages stating that legislation had already been initiated for the removal of existing provincial restrictions, and that the provinces desired that reciprocity with this country might be established at the earliest possible date. When the necessary steps are completed—and he has reason to think that no obstacles need be apprehended on this side of the Atlantic—all the provinces of Canada will have severally entered into reciprocal relations with the United Kingdom, the way will be open for the application of the medical act to the dominion as a whole, and the medical federation of the empire will be accomplished.

THE INCREASE OF WOMEN PHYSICIANS

The great increase in the number of women physicians in this country—from two, forty years ago, to over 1,000 at present—is reflected by the enlargement of the London School of Medicine for Women, at a cost of $100,000. Sixty new students will join the school in October, and the pressure on the space in the laboratory at which 220 are working is already very great. The increase in the number of women physicians was in progress before the war, but has been greatly accelerated by the shortage of men physicians produced by it.

INCREASE OF CANCER

The annual report for 1913 of the registrar-general, which has recently been published, unfortunately confirms the view that cancer is increasing. The deaths from this cause were greater in 1913 than in any previous year on record. The mortality among males was equal to 947 per million living, and among females to 1,155 per million, compared with rates of 913 and 117, respectively, in the year 1912. The tables show a constantly increasing mortality in proportion to urbanization, which is more serious in the case of males than females. According to the registrar-general, Dr. Stevenson, differences of the dimensions shown may be due to the better facilities for diagnosis in the urban areas, where a much larger proportion of the deaths occur in institutions in which postmortem examination is the rule, than, as in private practice, the exception. The considerable increase of mortality now recorded is very uniform, being common to the two sexes in every class of area. It is also widely spread over the different age periods, the chief exception being in the case of women at very advanced ages. The excess of female mortality over that of males is concentrated mainly on the ages from 25 to 55. At other ages there is either practical equality or a male excess, as at ages from 60 to 85 in the country generally. The increase of mortality from cancer of various organs differs. In both sexes the most rapid rates of increase are furnished by cancer of the alimentary tract, especially the intestines and stomach. Diseases of the female breasts also claim a rapidly increasing number of victims, while mortality from uterine cancer is diminishing. Childbearing appears to increase the risk of uterine and diminishes that of mammary cancer. The mortality from cancer of the liver remains stationary. Secondary growths are mentioned with especial frequency in cases of breast cancer. Deaths thus certified amount to 33 per cent. in the case of the breast, whereas in the case of most other important sites the proportion falls short of 10 per cent.

Marriages

WILBURN H. SMITH, M.D., to Mrs. Clara Rood Royce Akeley, both of Long Beach, Cal., at Santa Barbara, Calif., June 10.

FRANK HARMAN SMITH, M.D., Clintonville, Ky., to Miss Maude Hooser of Crowder, Okla., at Jeffersonville, Ind., June 2.

EDGAR FLOYD SEWELL, M.D., Somerville, Mass., to Miss Edna Florence Gordon of West Somerville, Mass., June 9.

MATTHEW HAMMOND GRISWOLD, M.D., Kensington, Conn., to Miss Vermadel Rodgers of Burlington, Vt., June 24.

JEREMIAH MILTON NEWMAN, M.D., Philadelphia, to Miss Ora Arneta Johnson of Richmond, Va., Dec. 2, 1914.

CLARKE JACKSON STALLWORTH, M.D., Thomaston, Ala., to Miss Mary Carter Adams, at Consul, Ala., May 19.

THOMAS GRIER MILLER, M.D., Philadelphia, to Miss Sarah H. George of Baltimore, in Philadelphia, June 3.

JOSEPH FRANCIS MELOAN, M.D., Media, Ill., to Miss Josephine Michael Block of Elsberry, Mo., June 1.

IRVING GEORGE WILTROUT, M.D., Swanville, Minn., to Miss Louise Schaefer of Two Rivers, Wis., June 5.

CHARLES MORGAN WILLIAMS, M.D., to Miss Jane Little Willison, both of Washington, N. J., June 8.

LEO ALBERT GOODMAN, M.D., Dubuque, Ia., to Miss Mary Cecelia Downey of Hammond, Ind., June 12.

THOMAS JEROME HENNEBERRY, M.D., Cheyenne, Wyo., to Miss Fredrika Dolcater, at Denver, June 2.

NORBERT CHARLES NITSCH, M.D., to Miss Ethel Marie Katzenberger, both of Baltimore, June 23.

CONSTANTINE J. MCGUIRE, JR., M.D., to Miss Alice M. Cordier, both of New York City, June 10.

CHARLES TAYLOR MOSS, M.D., Champaign, Ill., to Miss Lillian K. Christoph of Chicago, June 14.

CLYDE LE GRANDE SEITZ, M.D., to Miss Florence Elizabeth Heitshue, both of Glen Rock, Pa., June 2.

LOUIS F. MOLLEUR, M.D., to Mrs. Frank Reynolds, both of Melrose, Mont., in Butte, Mont., recently.

ELMER D. MADDUX, M.D., LaCrosse, Ind., to Miss Ethyle Schriver of York, Pa., in Chicago, June 3.

JAMES RUSSELL STEWART, M.D., to Miss Belle Williams, both of Colorado Springs, Colo., June 17.

THOMAS EDWARD CONLEY, M.D., Park Ridge, Ill., to Miss Ellen May Raynor of Chicago, June 21.

GEORGE TRAYLOR EDWARDS, M.D., Elba, Ala., to Miss Annie Lou Dudley of Mulberry, Ala., June 2.

FRANK MONTGOMERY, M.D., Denver, to Miss Claire Le Wallen of Manhattan, Kan., April 29.

JOSEPH IRVING LIND, M.D., New Haven, Conn., to Miss Stella A. Mann of Baltimore, June 7.

CHARLES CLEVELAND ADAMS, M.D., to Miss Madge Campbell, both of Longview, Tex., June 5.

JOHN WESLEY CLAYTON, M.D., Johnston City, Ill., to Miss Agnes Doty of Marion, Ill., June 2.

PAUL CLEMENTS, M.D., Culion, P. I., to Miss Trinidad Munoz, at Manila, P. I., April 11.

RUDOLPH E. J. ODEN, M.D., Cadillac, Mich., to Miss Olga Wahlquist of Minneapolis, June 8.

BURGOYNE H. GIBSON, M.D., Richmond, Ky., to Miss Mattie E. Lewis of Hyden, Ky., recently.

ANDREW SARGENT, M.D., Hopkinsville, Ky., to Miss Isabelle D. King of Philadelphia, May 5.

ROY ALVIN SCHNACKE, M.D., to Miss Thursnelda Abetmeyer, both of St. Paul, June 22.

GEORGE STANLEY BARBER, M.D., to Miss Alma Lucile Fain, both of Lawton, Okla., June 9.

CHARLES OTTO MOORE, M.D., to Miss Josephine Durkee, both of Salt Lake City, June 3.

WALTER SAULSBURY NIBLETT, M.D., to Miss Ethel Wolfe, both of Baltimore, June 9.

WILLIAM H. MARTIN, M.D., to Mrs. Anna P. Doyle, both of Houston, Tex., June 1.

HENRY JAMES, M.D., to Miss Rosalie O'Brien, both of New York City, June 8.

Deaths

Charles Edward Woodruff, M.D. Jefferson Medical College, 1886; lieutenant-colonel, U. S. Army (retired); who entered the Navy as assistant surgeon in 1866 and a year later transferred to the Medical Corps of the Army; an officer of distinguished service and awarded two medals for war service; author of several books and monographs, the best known of which are probably his work on, "The Effects of Tropical Light on White People," which appeared ten years ago, and his treatise on "Medical Ethnology," which appeared last month; a Fellow of the American Medical Association; assistant editor of *Modern Medicine;* died at his home in New Rochelle, N. Y., June 15, aged 54.

Charles Elihu Slocum, M.D. College of Physicians and Surgeons in the City of New York, 1869; Bellevue Hospital Medical College, 1876; Jefferson Medical College, 1876; at one time president of the Defiance County (Ohio) Medical Association and vice president of the District Medical Society; for several years professor of psychology and ethics in the Cleveland College of Physicians and Surgeons; at one time vice president of the Merchants' and First National banks at Defiance, Ohio; for many years a resident of Toledo; died in the Flower Hospital in that city, June 7, aged 74.

Jacob Michaux, M.D. Medical College of Virginia, Richmond, 1876; a member and once president of the Medical Society of Virginia and also president of the Richmond Academy of Medicine and Surgery; professor of materia medica and therapeutics in the University College of Medicine, Richmond, from its foundation in 1893 until 1912; assistant surgeon and later surgeon of the First Infantry, Virginia Volunteers; in 1889 appointed a member of the State Medical Board; one of the most prominent practitioners of Richmond; died at his home in that city, June 7, after a long illness, aged 63.

Abraham Barker Cates, M.D. Harvard Medical School, 1880; a Fellow of the American Medical Association and professor of obstetrics in the College of Medicine and Surgery of the University of Minnesota, Minneapolis; one of the leaders in the efforts in behalf of the Elliott Memorial University and the Trast Endowment; obstetrician to the Northwestern, Asbury and Swedish hospitals, Minneapolis, and attending physician to the Bethany Home; died at his summer home in Clearwater Lake, Minn., June 10, aged 61.

John Hildreth McCollom, M.D. Harvard Medical School, 1869; formerly a Fellow of the American Medical Association; a member of the Massachusetts Medical Society and American Society of Pathology and Bacteriology, and American Pediatric Society; emeritus professor of contagious diseases in his alma mater, and medical director of the Boston City Hospital; died at his home in Boston, June 13, aged 71.

Arthur Worrall Palmer, M.D. New York Homeopathic Medical College, New York City, 1883; surgeon and professor of laryngology at the New York Ophthalmic Hospital; laryngologist to the Metropolitan Hospital, New York City; formerly editor and publisher of the *Journal of Ophthalmology, Otology and Laryngology;* died at his home in New York City, June 10, aged 52.

Joseph Walker Floyd, M.D. Medical College of the State of South Carolina, Charleston, 1900; a member of the South Carolina Medical Association and Medical Society of the State of North Carolina; chairman of the board of trustees of the Tabor (N. C.) Graded School; a veteran of the Spanish-American War; died at his home in Tabor, June 4, from cerebral hemorrhage, aged 41.

Henry Janes, M.D. College of Physicians and Surgeons in the City of New York, 1855; a Fellow of the American Medical Association; surgeon of Volunteers during the Civil War in which he served as brevet lieutenant-colonel; at one time in command of the hospital ship *Maine;* and surgeon-general of the state of Vermont; died at his home in Waterbury, Vt., June 10, aged 82.

Henry Osborn Hanawalt, M.D. Medical College of Ohio, Cincinnati, 1873; professor of organic nervous diseases in the University of Kansas, School of Medicine; a veteran of the Civil War; at one time president of the Kansas Medical Society and the Jackson County (Mo.) Medical Society; died at his home in Kansas City, June 5, aged 70.

George B. Graves, M.D. University of the South, Sewanee, Tenn., 1903; formerly a member of the State Medical Association of Texas; formerly surgeon to the Virginia Pocahontas Coal Company, Coalwood, W. Va., and a member of the West Virginia State Medical Association; died at his home in Valentine, Tex., June 7, aged 34.

William Wabash Kneale, M.D. University of Virginia, Charlottesville, 1889; a member of the Indiana State Medical Association; for four years a member of the common council of Anderson, Ind.; physician to the American Steel and Wire Company; died at his home in Anderson, June 7, from cerebral hemorrhage, aged 54.

Lee Whitfield Staton, M.D. Kentucky School of Medicine, Louisville, 1879; of Richmond, Va.; acting assistant surgeon, U. S. P. H. S., for eighteen years; aged 58; a member of the Association of Military Surgeons of the United States; was thrown from his buggy, June 7, fracturing his skull and died fifteen minutes later.

James Small, M.D. American Medical College, Eclectic, St. Louis, 1880; resident physician to the Nuyaka Mission School, I. T., in 1890-1891; for many years a practitioner of north Arkansas, south Missouri and eastern Oklahoma; died at his home in Steedman, Okla., April 18, from pneumonia, aged 73.

Hal Laureston Speedy, M.D. Western Pennsylvania Medical College, Pittsburgh, 1911; formerly intern in St. John's Hospital, Pittsburgh, but for the last six months, assistant superintendent of the Santa Fe System hospital at Albuquerque, N. M.; died in Albuquerque, June 3, aged 29.

Maurice J. O'Connor, M.D. Northwestern University Medical School, Chicago, 1903; of Williams, Ia.; was crushed under his overturned automobile, near his home, June 7, and died a few hours later in St. Joseph's Mercy Hospital in Webster City, Ia., from his injuries, aged 38.

Powhattan Green Trent, M.D. Jefferson Medical College, 1867; a member of the Medical Association of the State of Alabama; formerly president of the Randolph County (Ala.) Board of Censors; died at his home in Roanoke, Ala., May 31, from heart disease, aged 70.

Amos T. Davis, M.D. Cincinnati College of Medicine and Surgery, 1859; formerly of Flat Rock, Ind.; died in his barrack at the National Home for Disabled Volunteer Soldiers, National Military Home, Ind., April 5, from acute dilatation of the heart, aged 79.

Edward Ellerslie Goodman, M.D. Jefferson Medical College, 1874; for forty years a practitioner of Altoona and at one time physician of Blair County; died at his home in Altoona, June 1, from cerebral hemorrhage, aged 65.

Thomas B. Ross, M.D. Washington University, St. Louis, 1866; a veteran of the Civil War and for thirty years a practitioner of Saline County, Mo.; died at his home in Slater, Mo., March 11, from sclerosis of the brain, aged 81.

James Edward Rankin, M.D. Keokuk (Ia.) Medical College, 1891; of Watertown, Ill.; died in the Watertown State Hospital, June 6, from the effects of poison, self-administered, it is believed, with suicidal intent, aged 46.

Ianthus G. Johnson, M.D. Albany (N. Y.) Medical College, 1853; for more than sixty years a practitioner of Greenfield Center, N. Y.; supervisor of the town of Greenfield for two years; died at his home, June 1, aged 85.

John Werton Hampton, M.D. Rush Medical College, 1912; of Norway, Mich.; physician for the Loretto (Mich.) Mining Company; died in St. Joseph's Hospital, Chicago, June 3, from lymphatic leukemia, aged 26.

Karl A. Norderling, M.D. College of Physicians and Surgeons, Chicago, 1887; formerly of Chicago, but since 1908 a resident of Paxton, Ill.; died at his home in that city, June 9, after a long illness, aged 58.

John Fullilove Taylor, M.D. Vermont Medical College, Woodstock, 1853; of Holly Grove, Ark.; a Confederate veteran; died at the home of his daughter in Little Rock, Ark., May 29, aged 81.

Edward F. Lake, M.D. Syracuse (N. Y.) University, 1882; of Denver; died at his home in that city, June 10, from malignant disease of the throat after an illness of more than two years, aged 55.

Daniel G. Allinder, M.D. University of Pennsylvania, Philadelphia, 1869; a veteran of the Civil War and formerly a practitioner of Pittsburgh; died in Washington, D. C., May 28.

William Henry Stettler, M.D. Bellevue Hospital Medical College, 1891; of Spinnerstown, Pa.; died in the German Hospital, Philadelphia, June 8, from strangulated hernia, aged 45.

Ross V. Dickey, M.D. Eclectic Medical Institute, Cincinnati, 1899; county physician of Allen County, Ohio; died at his home in Lima, June 9, from cerebral hemorrhage, aged 46.

John Tinsley Harrison, M.D. Atlanta (Ga.) Medical College, 1881; a member of the Medical Association of the State of Alabama; died at his home in Talladega, Ala., May 27, aged 81.

George Henry Hutchings, M.D. Eclectic Medical College of the City of New York, 1884; a practitioner for more than fifty years; died at his home in Woburn, Mass., May 30, aged 74.

Matthew Joseph McKenna, M.D. Long Island College Hospital, Brooklyn, 1912; Bay Ridge, Brooklyn; died at the home of his uncle in Brooklyn, June 4, from nephritis, aged 24.

George W. Loar, M.D. Physio-Medical Institute, Cincinnati, 1863; for nearly half a century a resident of Monroe, Ia.; died at his home, March 23, from pneumonia, aged 69.

William Webster Small, M.D. Ohio Medical College, Cincinnati, 1873; formerly of Indianapolis; died in Loomis, Calif., May 5, from chronic inflammation of the spleen, aged 64.

Alfred H. Metts (license, Indiana, 1897) of Fort Wayne, Ind.; a practitioner for nearly half a century; died suddenly in Ossian, Ind., June 4, from heart disease, aged 77.

Roy Earl Mauldin, M.D. Mississippi Medical College, Meridian, 1912; of Artesia, Miss.; aged 27, was shot and instantly killed by a druggist of that place, June 3.

John Blair Guthrie, M.D. University of Toronto, 1889; an advertising specialist of Illinois; died at his home in Evanston, Ill., June 5, from tuberculosis, aged 45.

Benedict Jones Wetherby, M.D. Rush Medical College, 1884; a Fellow of the American Medical Association; died at his home in Wilkes-Barre, Pa., May 28, aged 55.

John Gants, M.D. Eclectic Medical Institute, Cincinnati, 1872; for fifty-nine years a practitioner of Cromwell, Ind.; died at his home in that place, June 2, aged 82.

Orlando C. Stewart, M.D. University of Maryland, Baltimore, 1878; formerly of Cookport, Pa.; died at his home in Toledo, Ohio, June 2, from heart disease.

Samuel Elliott McCreary, M.D. Miami Medical College, Cincinnati, 1880; died in his office in Keokuk, Iowa, May 28, from cerebral hemorrhage, aged 58.

John Frederick Harrington, M.D. Keokuk (Iowa) Medical College, 1895; of Stacyville, Ia.; died in St. Francis' Hospital, Waterloo, Iowa, June 2, aged 53.

William P. Parr, M.D. Jefferson Medical College, 1859; died at his home in Wichita, Kan., April 6, from chronic diarrhea and rheumatism, aged 82.

M. D. Dunham, M.D. Chattanooga (Tenn.) Medical College, 1903; died at his home in Georgetown, Tenn., June 6, from heart disease, aged 60.

Thomas Burke Walsh, M.D. University of Illinois, Chicago, 1912; died at his home in Artesian, S. D., June 3, from heart disease, aged 30.

Franklin J. Clay Griffith, M.D. Cincinnati College of Medicine and Surgery, 1874; died at his home in Annapolis, Ill., May 27, aged 71.

Jesse Dwight Bacon, M.D. American Medical College, Cincinnati, 1856; died at his home in Cannelton, Ind., June 9, aged 83.

Isaac R. Landis, M.D. Jefferson Medical College, 1865; died at his home in Philadelphia, May 29, from nephritis, aged 74.

Isaac H. Kelly, M.D. College of Physicians and Surgeons, Keokuk, Ia., 1880; died at his home in Stone Fort, Ill., May 27.

Joseph Prevett (license, Massachusetts, 1904), an Italian practitioner of Boston; died in Derry, N. H., June 6, aged 34.

The Propaganda for Reform

IN THIS DEPARTMENT APPEAR REPORTS OF THE COUNCIL ON PHARMACY AND CHEMISTRY AND OF THE ASSOCIATION LABORATORY, TOGETHER WITH OTHER MATTER TENDING TO AID INTELLIGENT PRESCRIBING AND TO OPPOSE MEDICAL FRAUD ON THE PUBLIC AND ON THE PROFESSION

ARTICLES REFUSED RECOGNITION

Report of the Council on Pharmacy and Chemistry

Below appear abstracts of the Council's action on articles refused recognition which were not deemed of sufficient importance to require a lengthy report.

Venodine

Venodine (The Intravenous Products Co., Denver), according to information sent to the Council, is "an Intravenous Iodine Compound" put up in ampules each of which contains "28 grains of Sodium Iodide, ⅛ grain each of Beechwood Creosote and Guaiacol in a suitable vehicle, and excipients to enhance its compatibility with the circulating blood."

The "Therapeutic Indications" include "infectious diseases, such as syphilis, tuberculosis, bronchitis, bacteraemias associated with chronic and acute nephritis (Bright's disease), and other infections." The Council held as unwarranted and grossly exaggerated the following therapeutic claims: (1) that the full therapeutic value of iodin medication cannot be readily obtained except by intravenous injection; (2) that Venodine is "of exceptional value in tuberculosis"; (3) that in pneumonia Venodine "combines the anaesthetic properties of creosote and guaiacol with the germicidal value of iodine"; (4) that "Venodine (or its iodine component) has long enjoyed an exceptional reputation" as of great value in many infectious diseases including bacteremias. The facts on these points are the following:

1. Since iodids are easily absorbed from the mucous membrane of the gastro-intestinal tract and are usually well tolerated by the stomach, there is no reason for resorting to intravenous injection in their administration.

2. The indiscriminate administration of iodids for pulmonary tuberculosis is strongly to be condemned. The cases in which they can be given to tuberculous patients without doing harm must be very carefully selected.

3. There is no evidence either that creosote is excreted by the lungs in sufficient quantity to exert an anesthetic influence or that iodin is present in the circulation of the lungs or in the bronchial secretions in a form which is capable of exerting any germicidal action whatever.

4. It is generally held that the systemic administration of iodin compounds in bacteremias is useless.

The Council also held the name "Venodine" objectionable in that it fails to indicate the chief ingredient (sodium iodid) of this simple pharmaceutical mixture. The statement in a circular that "Venodine is a sterile solution representing 1.54 Gm. (24 grains) of iodine in chemical combination together with creosote and guaiacol" is likely to lead physicians to use the preparation without considering that its chief constituent is the well-known substance sodium iodid, particularly so since no reference to sodium iodid is made in the circular.

Furthermore, the Council held that the combination of two such similar substances as creosote and guaiacol (the second a constituent of the first) as given in the published formula, stamps Venodine as unscientific; it adds mystery to the preparation, but does not increase its efficiency, and is therefore against the best interests of the public.

The Council voted that Venodine be held ineligible for conflict with Rules 6, 8 and 10.

This report having been submitted to the manufacturers, in accordance with the Council's custom, and the reply affording no reason for modifying the findings, its publication has now been authorized.

Calcreose

In response to inquiries and in view of the extensive advertising propaganda, the Council, on Dec. 19, 1913, took up for consideration Calcreose (Maltbie Chemical Company, Newark, N. J.). Examination showed that the preparation contained, in loose combination, approximately equal weights of creosote and lime. The claims made in the advertising

"literature" were extravagant and uncritical, and the Council therefore held Calcreose ineligible for New and Nonofficial Remedies.

In June, 1914, at the request of the Maltbie Chemical Company, the Council undertook a reconsideration of the preparation. The advertising claims were now found more conservative. Before the existing claims could be judged, however, the Council deemed it necessary to require from the company satisfactory proof (1) that the large doses of Calcreose recommended and administered actually furnish large amounts of creosote to the blood, and (2) that patients taking these large doses do not suffer from digestive disturbances, loss of nutrition, albumin in the urine or phenol urine, as claimed. The Council accordingly advised the company of this requirement, at the same time stipulating that nothing in the report should be interpreted as indicating a belief on the part of the Council that enormous doses of creosote are necessary for, or will promote a cure of tuberculosis.

The Maltbie Chemical Company has not up to the present date furnished this proof, but has evinced a disposition to make the Council's holding Calcreose under advisement appear in the guise of a quasi-approval. It is therefore recommended that Calcreose be refused recognition for conflict with Rule 6.

Standard Radium Solution for Intravenous Use

Standard Radium Solution for Intravenous Use (Radium Chemical Co., Pittsburgh) is sold in ampules each containing radium bromid equivalent to 0.05 microgram radium element and 0.0002 gm. or less of barium bromid dissolved in 2 c.c. sterile normal physiologic salt solution.

While the Council has confirmed the claimed composition of Standard Radium Solution for Intravenous Use so far as concerns the radium content, it refused recognition to the preparation because there is no clear evidence that intravenous injection has any advantage over the other methods of administering radium. The Council holds that radium for internal medical use is in an experimental stage, that, on the basis of our present knowledge, this substance should be used intravenously only by those in a position to study its effect carefully, and in an institution equipped with the necessary facilities for such study. For these reasons and on account of the risk involved with any form of intravenous medication, the Council voted not to accept Standard Radium Solution for Intravenous Use for inclusion with New and Nonofficial Remedies.

In accordance with the Council's regular procedure this report was submitted to the Radium Chemical Company for comment. The Council, after considering the new evidence offered, decided that its previous action should be allowed to stand and accordingly authorized publication.

Rheumalgine

Rheumalgine (Eli Lilly & Co., Indianapolis) is put up both in tablet form and as a liquid. Each tablet, or teaspoonful of the liquid, is said to contain:

"Strontium salicylate from Natural Oil..... 5 gr.
Hexamethylenamin ..... 2 gr.
Colchicine ..... 1/200 gr."

The advertising matter contains several statements regarding the individual ingredients to which objection must be made.

It is claimed (quoting from Hare) that strontium salicylate

". . . is not so disagreeable to the taste as the corresponding sodium salts, and more important still, it is far less apt to disorder the stomach."

"Taste" is a difficult subject to dispute; but in the experience of the referee patients object more to the strontium than to the sodium salt. No evidence is submitted to prove that the strontium salt is less apt to disorder the stomach. In observations made under the direction of the referee, the nauseant and emetic doses are about the same as, or even less than, those of sodium salicylate.

Under hexamethylenamin, the recommendations are not confined to its recognized use as a urinary antiseptic; it is also said to be "unexcelled" as a "germicide," and to prevent the formation of urate and phosphate deposits. These statements are contrary to facts.

"Rheumalgine . . . may be used in all cases where the salicylates are indicated. It is superior to preparations containing sodium salicylate, in that it does not cause nausea or disturb the digestion."

Both the preceding statements are misleading. The necessity of giving 1/200 grain of colchicin for each 5 grains of salicylate would certainly interfere with the use of adequate doses of the latter. The colchicin would produce digestive disturbance quite apart from the salicylate.

The mixture is described as:

". . . ANTIRHEUMATIC, ANTIPYRETIC, URINARY ANTISEPTIC, AND URIC ACID ELIMINANT. Useful in Acute Articular and Chronic Rheumatism, Muscular Pains, Lumbago, Sciatica, Migraine of the Rheumatic, Gout, and in Nervous Irritability of the Gouty or Lithemic."

The facts are: Salicylates are useful in some of these conditions, colchicin occasionally in a few, hexamethylenamin in none. The combination is conducive to uncritical prescribing. For instance, salicylates are effective in acute articular rheumatism; hexamethylenamin and colchicin are useless; salicylates are of very little use in chronic rheumatism, sciatica and nervous irritability, while hexamethylenamin and colchicin are useless in these conditions; colchicin is sometimes effective in gout, salicylates perhaps also; hexamethylenamin is not.

Attention should also be called to the high dosage of colchicin, namely, 1/100 to 1/50 of a grain of the alkaloid, every three or four hours, the dose then to be "slightly reduced," but continued for several days; or in chronic cases, 1/100 to 1/30 grain per day, continued indefinitely. This dosage appears high, if a really active preparation is used.

Finally, the name "Rheumalgine" encourages thoughtless and unscientific prescribing. If a mixture is used at all, the prescriber should be constantly reminded of its composition.

It is therefore recommended that Rheumalgine be held in conflict with Rules 6 (unwarranted therapeutic claims), 8 (non-descriptive name) and 10 (unscientific composition).

Correspondence

Cancer and Heredity

To the Editor:—In Dr. Slye's recent communication (The Incidence and Inheritability of Spontaneous Cancer in Mice. *Jour. Med. Research,* 1915, xxxii, 159) concerning the inheritance of cancer, reference is made by way of illustration to a type-color inheritance which, since it is quite contrary to the more generally accepted principles of mendelian inheritance, requires critical comment.

On page 160 she says, "Let me at this point recall some of the basic facts of heredity." She then proceeds, using the customary mendelian terms "dominant" and "recessive," to describe a cross between *gray and albino mice,* and indicates results which are incompatible with those of other investigators. She furthermore furnishes no data in support of this more or less revolutionary hypothesis.

As Castle, Allen, Bateson, Durham, Cuenot, Plate, Davenport, and many others have carried on investigations on this particular problem in genetics and have reached results contrary to those predicted by Slye, it seems reasonable to demand a full presentation of her data on the inheritance of *albinism* in mice. In fact, a careful repetition of such work should be expected before her claims are to be accepted.

To those unfamiliar with the work of the geneticists above mentioned, Slye's paper might be taken as presenting the well-known principles of mendelian inheritance. With a knowledge of the facts, however, it is obvious that the type of inheritance which she outlines has not been observed in similar material by any of the investigators above mentioned. That this discrepancy is not based on an oversight on the part of Miss Slye has been determined by personal correspondence.

C. C. Little, Boston.
Cancer Commission of Harvard University.

[The foregoing letter was referred to Dr. Slye who writes:]

To the Editor:—Dr. Little's criticism is of course concerned wholly with a dispute on questions of mendelian interpretation. Such a dispute in no way affects the validity of my

results in cancer. Unfortunately, at the present time there is so much difference of opinion on almost every point in the mendelian doctrines that one could scarcely put out any results which would satisfy all the adherents of the different hypotheses.

The production of about a thousand spontaneous cancers in specified strains, and the nonoccurrence among this entire number of any cancer in certain other specified strains, no matter what test is applied to them, demonstrates to every reasonable probability the inheritability of cancer, and when these results are characteristically and systematically obtained in such an immense stock as to furnish over 10,000 necropsies and a living stock of about 11,000 mice, with a steady production of between seventy-five and a hundred cancer patients all the time and almost without exception within proved cancer strains, this reasonable probability is raised to an almost indisputable fact; and whether or not my strains of house mice have behaved in hybrid crosses in accordance with the established canon has no bearing whatever on the behavior of cancer. This question lies in quite another field.

In regard to my use of the terms "dominant" and "recessive" with respect to cancer behavior: It is almost the established conviction today that these terms are descriptive and not dynamic, and they furnish in the description of the behavior of cancer in heredity a graphic and convenient tool. That is probably all they furnish in the exposition of any problem in heredity. They may be discarded for even that service within the next few years.

The chief value in the study of cancer of the use of a partial mendelian background of comparison (although the details may be under dispute) is to show to those most interested how far back in a strain cancer may lie and still be transmitted, and by what sorts of crosses this can be done; and to make it plain that in deciding on the inheritability of human cancer and of the method of elimination of cancer from a family, one cannot take as a criterion of judgment whether or not the immediate parents exhibited cancer.

I do not desire or make a strict mendelian interpretation of my results; indeed, I should deplore such an interpretation. I have used mendelian comparisons (1) to make clear the influence of a more or less remote ancestry on later generations of progeny; (2) to show how cancer, like albinism, has been transmitted in my strains through generation after generation *by individuals who did not exhibit it;* and (3) to demonstrate how cancer thus transmitted finally leaps into expression in the offspring of a pair neither of whom expresses cancer, but both of whom bear it potentially.

The approximation even to conservative mendelian results is strikingly close for such a characteristic as cancer.

MAUD SLYE, Chicago.
The Otho S. A. Sprague Memorial Institute.

The Notary Fee in Applications for License Under the Harrison Narcotic Law

To the Editor:—I have just received notice from the collector of internal revenue that my application for a license, under the Harrison Narcotic Law, must be sworn to before a notary before it is sent to him.

It seems to me that we ought to make a strong protest against this very unjust rule. The fee for this service is from twenty-five to fifty cents, depending on the location. Usually it is fifty cents, which is not a very large sum; but in the aggregate it will amount to many thousands of dollars, and for what good? Absolutely none, except for the notary.

We have all complied with the law, and our licenses were duly paid for and issued for the four remaining months of the fiscal year. No notary fees were required for that. Every physician in the country entitled to use, prescribe or dispense any drug coming under the law is on record at his respective collector's office. The penalty for violation of the law in any way is very severe; therefore, why this unjust fee?

HENRY F. HOYT, M.D., Long Beach, Calif.

Kaolin, Clay Eaters and Clay-Containing Streams

To the Editor:—Noting in THE JOURNAL of June 12 editorial and other reference to the subject of the adsorption, perhaps by virtue of colloidal states of solution, by kaolin, I write to suggest that, in light of the work on its effect on the intestinal bacteria, investigations of the peculiar physiologic or pathologic state of the "clay eaters," numerous in some localities (North Carolina mountains) would be interesting. Especially would this be interesting in connection with the thought and the slight amount of experimental evidence of the possibility of life without the ingestion or the presence in the intestinal canal of micro-organisms.

Entirely aside from all but its physicochemical bearing is the curious condition of the river waters in many of the Southern streams. Even when practically motionless, they seem to hold in suspension indefinitely the whole or a considerable part of the finely divided clay particles of the soil of the territories which they drain. Much attention has for years been devoted to the fluvial waters and drinking water generally by the Italians, lately especially in connection with the etiology of pellagra. It might be that a study of the questions involved would result in considerable advance in our knowledge of many obscure problems of intestinal metabolism.

JONATHAN WRIGHT, M.D., Pleasantville, N. Y.

A "Twilight Sleep" Exhibit

To the Editor:—We have recently had presented in our city films representing "twilight sleep," accompanied by a lecture by a "German doctor." It purports to be under the auspices of the "Motherhood Educational Society." A committee of the Civic League of Saginaw, after seeing it in Bay City, protested against its presentation here—vainly, however, as the mayor found nothing objectionable in either pictures or lecture, and rebuked the women who objected to the commercial exploitation of maternity.

The lecturer subtly attacked the medical profession throughout. At the close, he invites questions from the audience. A good opportunity to test the reaction of the production is thus afforded. Some of the questions were offensive; on these the lecturer waxed witty, and there was hilarity in a considerable part of the audience. Aside from the question of bad taste, his statements were absolutely untrue. He claimed that twilight sleep was successful in 90 per cent. of all maternity cases.

What can be done to prevent such mischievous presentations to mixed audiences?

I have read with interest THE JOURNAL of May 22 with its reports of scopolamin-morphin treatment. In the light of such reports, a production such as was presented here is misleading and harmful in every way.

MRS. ELIZABETH S. CURTIS,
The Civic League, Saginaw, Mich.

Possibility of Failure in Prophylactic Typhoid Vaccination

To the Editor:—The following case is instructive from the standpoint of surgical diagnosis:

Miss X, aged 21 years, a nurse in Hahnemann Hospital, complained of anorexia and malaise for three days, at the end of which time she was suddenly taken with general abdominal pains. There was neither nausea nor vomiting. Her temperature was 102.4 F., pulse 120 and respirations 20. The white cell count was 12,000. The next morning, Dec. 27, 1914, the temperature was 103 F., the pulse 118, and pain and tenderness were localized in the right iliac fossa. Inquiry developed the fact that she had previously received immunizing injections of typhoid vaccine in another hospital as follows: Oct. 12, 1914, 500 million; Oct. 22, 1914, 1,000 million; Nov. 2, 1914, 1,000 million. The first dose was administered by the resident physician, the second by the supervising nurse and the third by a nurse in training. No ill effects whatever were experienced from the injections. In view of

these past facts and present symptoms, the case was diagnosed appendicitis, and operation performed. The findings in the appendix did not satisfy the diagnosis, and the case was closely watched. The temperature continued between 103 and 104 F. and the pulse above 110. December 28, the leukocytes were 11,600. December 29, a blood culture in glucose bouillon was negative. December 31, the Widal reaction, as was anticipated from the previous immunization, was positive. December 31, a second blood culture in bile was positive for the typhoid bacillus. Jan. 4, 1915, the leukocytes were 5,400, and rose spots appeared. The patient ran an average typhoid course, without complications, to recovery.

While the value and efficacy of typhoid immunization are undisputed and difficult to overrate, and while occurrences as cited are probably very rare, the foregoing experience may be timely and valuable in emphasizing the fallacy which seems to prevail in medical circles, namely, that recent typhoid immunization entirely eliminates typhoid fever in questions of abdominal diagnosis. The great mass of conclusive figures in favor of prophylactic typhoid vaccination are apt to blind us to the possibility of its failure in a certain very small percentage of cases for reasons which should be carefully inquired into.

S. W. SAPPINGTON, M.D., Philadelphia.

Queries and Minor Notes

ANONYMOUS COMMUNICATIONS and queries on postal cards will not be noticed. Every letter must contain the writer's name and address, but these will be omitted, on request.

POSTSACRAL SINUS

To the Editor:—As I have been unable to find anything in the books at my disposal, I should consider it a favor if you would give me some information on postsacral sinus, its etiology, pathology, prognosis and treatment. C. C. I.

ANSWER.—The term "postsacral sinus" has no specific meaning, as a sinus in the postsacral region may be due to a variety of causes as, for instance, osteomyelitis of the sacrum or coccyx of tuberculous or other origin; tuberculosis of the sacro-iliac joint, or of the hip, etc. Excluding bone or joint trouble of this kind, the most frequent cause of a sinus in this region is a persistence of the blastopore, or neurenteric canal, one of the earliest fetal canals extending from the surface of the embryo near the caudal end to the notochord.

This canal usually entirely disappears at a very early period of fetal life. There is almost always a small dimple in the lower sacral or coccygeal region which marks the point of the blastopore. Occasionally the blastopore fails to disappear entirely, a small tract of varying length remaining lined with epithelium. This little tract may be closed on the surface, in which case a small cyst may develop filled with sebaceous material. The cyst may become inflamed, open and discharge the sebaceous material, when a little sinus will persist.

Again, the blastopore may fail to close, in which case an epithelial-lined sinus of congenital origin may be present; or the tract may open on the surface at some later time of life, and a sinus persist. A similar condition is occasionally found at the umbilicus, because of a persistence of the omphalomesenteric duct.

The proper treatment of these sinuses is simply to remove the epithelium-lined tract.

BURNS OF THE EYE FROM LIME

To the Editor:—Please give the most approved method of treatment for the common and serious accident of getting lime in the eye. I have known several persons who have lost their eyesight completely from this accident, and I have been unable to find a book that even touches the treatment in a case of this kind. F. E. P.

ANSWER.—This form of accident occurs quite frequently, and is apt to be followed by very grave results. The most serious and important sequel is the adherence of the lid to the globe (symblepharon) when there are two opposing raw surfaces. If the patient is seen immediately after the accident, the first step in the treatment is to drop into the conjunctival sac a few drops of a 1 per cent. solution of holocain, or of a 4 per cent. solution of cocain, in order to relieve the pain, which is usually intense, and then to remove all the remaining particles of lime as quickly as possible. The irrigating fluid should be a weak solution of vinegar, to neutralize the caustic effect of the lime. Subsequently cold applications should be applied to the closed lids, and a mild antiseptic, such as a 3 per cent. boric acid solution, dropped into the eye every two or three hours. If the burn is at all extensive, the conjunctival sac should be filled with an antiseptic ointment, which not only relieves the pain, but also prevents adhesion of the opposing surfaces. One of the best preparations for this purpose is a mercuric chlorid ointment which consists of mercuric chlorid (1:10,000) in petrolatum. Severe burns from lime, resulting in complete opacity of the cornea, have been treated—in addition to the usual local treatment—by subcutaneous injections of sodium cacodylate (from 3 to 7 grains at a dose) with perfect results. For the general practitioner who, in emergencies like this, should be prepared to treat conditions which ordinarily belong to the ophthalmic surgeon, a practical book is "The Commoner Diseases of the Eye," by Wood and Woodruff. It takes up only the diseases of the eye most frequently seen, and how to detect and treat them, without technical discussion.

REFERENCES ON DISEASE OF THE PITUITARY GLAND

To the Editor:—I want to find out all I can concerning the effect of disease of the pituitary gland. Does this gland have any effect on the growth of the body? I am particularly interested in the case of a boy, aged 17, who weighs 217 pounds, and is 6 feet 5 inches tall. The parents for three generations have been normal, and average 5 feet 8 inches in height.

J. T. GRAY, M.D., Stillwater, Okla.

ANSWER.—The following is a list of references concerning disease of the pituitary gland:

Cushing, Harvey W.: Pituitary Body and Its Disorders, Philadelphia, J. B. Lippincott Company, 1912, $4.

Pfister, F.: Two Cases with Tumors Originating from Region of Hypophysis, *Wisconsin Med. Jour.*, May 1913.

Grinker, J.: Tumor of Hypophysis in Case of Acromegaly, THE JOURNAL, July 26, 1913, p. 235.

Luger, A.: Some Features of Roentgenographic Changes in Pituitary Diseases, THE JOURNAL, Sept. 6, 1913, p. 752.

Lewis, D. D., and Miller, J. L.: Relation of Hypophysis to Growth and Effect of Feeding Anterior and Posterior Lobe, *Arch. Int. Med.*, August, 1913; abstr., THE JOURNAL, Sept. 13, 1913, p. 896.

Barnabo, V.: Relations Between Hypophysis and Ovaries or Testicles, *Policlinico* (Surgical), August, 1913.

Frazier, C. H. and Lloyd, J. H.: A Case of Tumor of Hypophysis, Partially Removed by Transfrontal Method of Approach, THE JOURNAL, Nov. 1, 1913, p. 1626.

Taylor, A. L.: Case of Tumor of Pituitary Body, *Lancet*, London, Nov. 22, 1913.

Mamrot, A.: Hypophysis Tumor Syndrome in Young Man, *Arch. de méd. d. enf.*, December, 1913.

Lunghetti, B.: Tumor in Hypophysis Region, *Tumori*, February, 1914.

Finch, L. H.: Tumor of Hypophysis Cerebri, *New York State Jour. Med.*, March, 1914.

Gilmour, A.: Hypertrophic Pulmonary Osteo-Arthropathy (Marie's Disease), *Edinburgh Med. Jour.*, June, 1914.

Johnson, W.: Pathologic Investigation of Four Cases of Pituitary Tumor, *Lancet*, London, July 4, 1914.

Eltester: Acromegaly Plus Splanchnomegaly with Hypophysis Tumor in Male Cadaver of 32, *Med. Klin.*, Aug. 2, 1914.

Viscontini, C.: Infantilism, Fat Deposits and Genital Dystrophy with Tumor of Hypophysis, *Gazz. d. Osp.*, July 26, 1914; abstr., THE JOURNAL, Sept. 5, 1914, p. 898.

Bergeim, O.; Stewart, F. T., and Hawk, P. B.: Metabolism of Calcium, Magnesium, Sulphur, Phosphorus and Nitrogen in Acromegaly, *Jour. Exper. Med.*, September, 1914; abstr., THE JOURNAL, Sept. 26, 1914, p. 1135.

Halsted, T. H.: Intranasal Operation in Tumor of Hypophysis, *New York Med. Jour.*, Oct. 31, 1914.

Williams, T. A.: Case of Pituitary Disease Showing Both Acromegaly and Adiposis, *Washington Med. Ann.*, March, 1915.

DENTAL CLINICS

To the Editor:—In the *Washington Medical Annals*, January, 1915, there was published an article on school clinics, which I wrote, based on information gathered by the U. S. Bureau of Education. This article contains the names of all communities having school clinics, and shows that at the time when the statistics were gathered (up to October, 1914) forty-six communities had clinics for treating the teeth of schoolchildren; since that time Pittsburgh has also established school clinics for the eyes and teeth. This is in reply to the inquiry of R. B. (THE JOURNAL, May 22, 1915, p. 1782).

GEORGE H. HEITMULLER, M.D., Washington, D. C.

Medical Education and State Boards of Registration

COMING EXAMINATIONS

ALABAMA: Montgomery, July 6. Chairman, Dr. W. H. Sanders, Montgomery.

ALASKA: Juneau, July 6. Sec., Dr. Harry C. DeVighne, Juneau.

ARIZONA: Phoenix, July 6-7. Sec., Dr. John Wix Thomas, Phoenix.

COLORADO: Denver, July 6. Sec., Dr. David A. Strickler, 612 Empire Bldg., Denver.

CONNECTICUT: New Haven, July 13. Sec., Dr. Charles A. Tuttle, 196 York St., New Haven; Eclectic: New Haven, July 13. Sec., Dr. T. S. Hodge, 19 Main St., Torrington; Homeopathic: New Haven, July 13. Sec., Dr. Edwin C. M. Hall, 82 Grand Ave., New Haven.

DISTRICT OF COLUMBIA: Washington, July 13. Sec., Dr. Edgar P. Copeland, The Rockingham, Washington.

INDIANA: Indianapolis, July 13-15. Sec., Dr. W. T. Gott, 120 State House, Indianapolis.

MAINE: Augusta, July 6-7. Sec., Dr. Frank W. Searle, 776 Congress St., Portland.

MASSACHUSETTS: Boston, July 13-15. Sec., Dr. Walter P. Bowers, Room 501, No. 1 Beacon St., Boston.

NEW HAMPSHIRE: Concord, July 6-7. Regent, Mr. H. C. Morrison, Concord.

NEW MEXICO: Santa Fe, July 12. Sec., Dr. W. E. Kaser, East Las Vegas.

NEW YORK: Albany, Buffalo, New York and Syracuse, June 29-July 2. Mr. Harlan H. Horner, Chief, Examination Division, State Education Bldg., Albany.

NORTH DAKOTA: Grand Forks, July 6-9. Sec., Dr. G. M. Williamson, Grand Forks.

OKLAHOMA: Oklahoma City, July 13. Sec., Dr. Ralph B. Smith, 502 Daniel Bldg., Tulsa.

OREGON: Portland, July 5. Sec., Dr. L. H. Hamilton, Medical Bldg., Portland.

RHODE ISLAND: Providence, July 1. Sec., Dr. Gardner T. Swarts, State House, Providence.

SOUTH DAKOTA: Pierre, July 12. Sec., Dr. Park B. Jenkins, Waubay.

UTAH: Salt Lake City, July 5. Sec., Dr. G. F. Harding, 407 Templeton Bldg., Salt Lake City.

VERMONT: Burlington, July 1-3. Sec., Dr. W. Scott Nay, Underhill.

WASHINGTON: Seattle, July 6. Sec., Dr. G. N. Suttner, Baker Bldg., Walla Walla.

WISCONSIN: Milwaukee, June 29-July 1. Sec., Dr. J. M. Beffel, 3200 Clybourn St., Milwaukee.

WYOMING: Laramie, June 28-30. Sec., Dr. H. E. McCollum, Laramie.

Missouri March Report

Dr. J. A. B. Adcock, secretary of the Missouri State Board of Health, reports the oral and written examination held at St. Louis, March 22-24, 1915. The total number of subjects examined in was 14; total number of questions asked, 100; percentage required to pass, 75. The total number of candidates examined was 26, of whom 20 passed and 6 failed. Five candidates were granted reregistration licenses. The following colleges were represented:

College	PASSED	Year Grad.	Per Cent.
University of Arkansas		(1913)	84.2
Bennett Medical College		(1914)	85.6
College of Physicians and Surgeons, Chicago		(1893)	75
Rush Medical College		(1913) 90.7; (1914) 87.5,	85.2
Tufts College Medical School		(1905)	80.2
American Medical College		(1914) 77.9,	82.4, 90
St. Louis College of Phys. and Surgs.		(1908) 77.5; (1914) 75.8,	76.6
Washington University		(1904)	83.7
University and Bellevue Hospital Medical College		(1914)	88.8
Meharry Medical College		(1904)	75
University of West Tennessee		(1914) 76, 78.9,	82.1
Fort Worth School of Medicine		(1906)	75
	FAILED		
American Medical College		(1914)	72.3
St. Louis College of Phys. and Surgs.		(1910) 69.1; (1914)	71.5
University of West Tennessee		(1914) 70.8, 73.2,	73.5

Colorado April Report

Dr. David A. Strickler, secretary of the Colorado State Board of Medical Examiners, reports the oral and written examination held at Denver, April 6, 1915. The total number of subjects examined in was 8; total number of questions asked, 80; percentage required to pass, 75. The total number of candidates examined was 4, of whom 3 passed, including 1 osteopath, and 1 failed. Eleven candidates were licensed through reciprocity. One candidate was granted a reregistration license. The following colleges were represented:

College	PASSED	Year Grad.	Per Cent.
University of Louisville		(1914)	88.1
John A. Creighton Medical College		(1914)	81.6
	FAILED		
Tokyo Charity Hosp. College, Japan*		(1911)	58.5

* Not included in the official list of foreign medical colleges prepared by the Council on Medical Education.

College	LICENSED THROUGH RECIPROCITY	Year Grad.	Reciprocity with
College of Phys. and Surgs., Chicago		(1907)	Illinois
Northwestern University		(1912)	Illinois
Indiana University		(1913)	Indiana
Medical College of Indiana		(1901)	Indiana
University of Louisville		(1912)	Tennessee
University of Maryland		(1902)	Maryland
Harvard Medical College		(1898)	Mass.
Northwestern Medical College of St. Joseph		(1890)	Missouri
New York Homeopathic Medical College		(1881)	Missouri
Meharry Medical College		(1904)	Oklahoma
Memphis Hospital Medical College		(1898)	Mississippi

Idaho April Report

Dr. Charles A. Dettman, secretary of the Idaho State Board of Medical Examiners, reports the written examination held at Lewiston, April 6-7, 1915. The total number of subjects examined in was 11; total number of questions asked, 110; percentage required to pass, 75. The total number of candidates examined was 17, of whom 16 passed and 1 failed. One candidate was licensed through reciprocity. The following colleges were represented:

College	PASSED	Year Grad.	Per Cent.
University of Colorado		(1914)	83
College of Physicians and Surgeons, Chicago		(1912)	86
Illinois Medical College		(1905)	84
Rush Medical College		(1912)	87
University of Illinois		(1913)	80
Indiana University		(1909)	83
State University of Iowa, College of Medicine		(1897)	84
Southern Homeopathic Medical College		(1904)	79
St. Louis University		(1906)	75
Jefferson Medical College		(1896) 90; (1912)	87
Medico-Chirurgical College of Philadelphia		(1906)	81
College of Physicians and Surgeons, Memphis		(1910)	82
University of Vermont		(1908) 80; (1914)	84
Marquette University		(1913)	78
	FAILED		
University of the South		(1909)	70

College	LICENSED THROUGH RECIPROCITY	Year Grad.	Reciprocity with
Denver and Gross College of Medicine		(1908)	Utah

Minnesota April Report

Dr. Thomas S. McDavitt, secretary of the Minnesota State Board of Medical Examiners, reports the oral, practical and written examination held at Minneapolis, April 6-8, 1915. The total number of subjects examined in was 8; total number of questions asked, 80; percentage required to pass, 75. The total number of candidates examined was 7, of whom 6 passed and 1 failed. Twelve candidates were licensed through reciprocity. The following colleges were represented:

College	PASSED	Year Grad.	Per Cent.
Rush Medical College		(1914)	87
Johns Hopkins University		(1914)	90
Boston University		(1909)	80
University of Minnesota		(1909)	88
Cornell University		(1913)	85
University of St. Joseph, Beirut		(1914)	82
	FAILED		
Hamline University		(1904)	69

College	LICENSED THROUGH RECIPROCITY	Year Grad.	Reciprocity with
Coll. of Phys. and Surgs., Chicago		(1907) S. Dakota; (1909)	Illinois
Hahnemann Med. Coll. and Hosp., Chicago		(1908)	Illinois
Rush Medical College		(1908)	Illinois
Indiana Medical College		(1906)	Indiana
State Univ. of Iowa, Coll. of Homeo. Med.		(1908)	Iowa
University of Louisville		(1911)	N. Dakota
Hamline University		(1907)	N. Dakota
John A. Creighton Medical College		(1913)	Nebraska
Marquette University		(1914, 2)	Wisconsin
University of Toronto		(1906)	N. Dakota

Nevada May Report

Dr. S. L. Lee, secretary of the Nevada Board of Medical Examiners, reports the written examination held at Carson City, May 3-5, 1915. The total number of subjects examined in was 13; total number of questions asked, 100; percentage required to pass, 75. The total number of candidates examined was 7, all of whom passed, including 1 osteopath. Five candidates were licensed through reciprocity. The following colleges were represented:

College	PASSED	Year Grad.	Per Cent.
California Eclectic Medical College		(1913)	87.7; (1914) 83.3
Coll. of Phys. and Surgs., San Francisco.		(1911)	77.3; (1914) 80.1
Tulane University of Louisiana		(1914)	95.3
Medico-Chirurgical College of Philadelphia		(1912)	86.4

College	LICENSED THROUGH RECIPROCITY	Year Grad.	Reciprocity with
Chicago College of Medicine and Surgery		(1913)	Nebraska
State University of Iowa College of Medicine		(1911)	Iowa
University of Michigan, Dept. of Med. and Surg.		(1903)	N. Carolina
St. Louis University		(1913)	Missouri
Omaha Medical College		(1896)	Nebraska

Book Notices

DIRECTIONS FOR A PRACTICAL COURSE IN CHEMICAL PHYSIOLOGY. By W. Cramer, Ph.D., D.Sc. Second Edition. Paper. Price, $1 net. Pp. 102. New York: Longmans, Green & Co., 1915.

This is one of the best guides for a general course in chemical physiology which we have seen. It is intended for the use of the medical student, and has just enough material to enable the worker to grasp the fundamental facts of physiologic chemistry, which are of such importance in the proper understanding of the clinical phenomena. The subject-matter is divided into three parts. Part I deals with animal and vegetable tissues and fluids; Part II treats of digestion, and Part III covers, in a general way, normal and pathologic metabolism. No attempt is made to present the subject in an exhaustive way, as this is necessary only for the specialist, for whom the book is not intended. The text, which is limited to experiments and deductions from these experiments, is presented in a clear and instructive manner. This work is recommended both to the teacher who may wish a brief and practical guide for his students, and to the worker who may desire to familiarize himself with the basic principles of chemical physiology.

PYELOGRAPHY (PYELO-URETEROGRAPHY). A Study of the Normal and Pathologic Anatomy of the Renal Pelvis and Ureter. By William F. Braasch, M.D. Cloth. Price, $5 net. Pp. 323, with 296 illustrations. Philadelphia: W. B. Saunders Company, 1915.

This is the first systematic presentation in any language of a method of diagnosis of kidney and ureteral affections, to which Voelker first called attention ten years ago. The author deplores the unjust condemnation of the method because of the deaths following its employment in a few cases. The majority of these ill effects were due to the use of too much force in injecting the solutions into the upper urinary tract. The book is based on the experience of the author in 2,000 cases, and the absence of any complication in this large number of pyelograms is the strongest argument for the gravity method which he employs. The numerous excellent roentgenograms show that pyelography is an almost indispensable diagnostic aid in renal and ureteral lesions. A careful study of the book is recommended to those interested in urologic as well as in general abdominal conditions.

EVOLUTION AND DISEASE. By J. T. C. Nash, Captain, R. A. M. C., T. F., S. S. Cloth. Price, $1.40 net. Pp. 73. New York: William Wood & Co., 1915.

This book consists of the Chadwick Public Lectures for 1913. The author traces in simple language the growth of our modern knowledge regarding the spread of disease, and shows the remedy in public education.

Society Proceedings

COMING MEETINGS

AMERICAN MEDICAL ASSOCIATION, San Francisco, June 21-25.

American Ophthalmological Society, New London, Conn., July 6-7.
Montana State Medical Association, Bozeman, July 14-15.
Washington State Medical Association, Tacoma, July 20-22.

MISSOURI STATE MEDICAL ASSOCIATION

Fifty-Eighth Annual Meeting, held at St. Joseph, May 10-12, 1915

The President, DR. H. C. SHUTTEE, in the Chair

Pneumonia Treated with Rosenow and Hektoen's Antigen

DR. OLA PUTMAN, Marceline: Sixteen patients received the treatment without a fatality. The average time of crisis from the onset was four and one-quarter days.

DISCUSSION

DR. C. L. WOOLSEY, St. Joseph: I recently treated a patient, aged 62, who had developed the disease two days before he called for the doctor. His symptoms, therefore, were quite grave, including a bad mitral lesion. I gave him sensitized pneumococci, four injections, the last two containing 500 million germs. He made a speedy recovery.

Essential Hemorrhage from the Uterus

DR. C. H. WALLACE, St. Joseph: In essential hemorrhage from the uterus, the flow may occur without physical signs and symptoms, except the bleeding. This flow is never intramenstrual, generally is most excessive at the menstrual epoch, and may run from one period into another. The uterus may be slightly larger than normal, but perfectly mobile and with no other physical signs of disease. It occurs in the young or middle aged. The condition seems to be allied to uterine fibrosis. The hemorrhage may extend over a period of several years, the patient's general health being impaired from loss of blood.

DISCUSSION

DR. CARYL POTTER, St. Joseph: I do not believe in the conception of essential hemorrhage. There are several constitutional causes of hemorrhage. I should hesitate long before performing hysterectomy on a patient under 35 or before the menopause.

DR. JOHN J. SHELDON, Kansas City: Hysterectomy may be the only means of relief, but it is a great injury to the patient if done unnecessarily. The number of cases, however, demanding this extreme measure is exceedingly small.

DR. C. H. WALLACE, St. Joseph: In all my cases the ovary was left. Hysterectomy should be resorted to only after every other measure of relief has failed.

Renal Tuberculosis

DR. JAMES P. HENDERSON, Kansas City: Postmortem statistics show that from 50 to 60 per cent. of the cases are bilateral. It is of great importance to know whether one or both kidneys are involved and with what degree of destruction. Early tuberculosis affects but one kidney in from 90 to 95 per cent. of cases. It is my opinion that in cases of uremic anuria or acute suppression following surgical operation on one kidney, the other is found tuberculous in from 25 to 30 per cent., and that the destruction of the kidney is either primary or secondary in 95 per cent. of cases, and is secondary to tuberculosis elsewhere in the body. Tuberculosis of the bladder and ureter occurs in from 10 to 20 per cent., and is always secondary. In the acute miliary type there is no symptom to make the physician suspect the tuberculosis, all symptoms pointing to the systemic affection. In the caseating form there may be only constitutional symptoms, no local ones.

DISCUSSION

DR. E. G. MARK, Kansas City: No urine should be taken for diagnosis or accepted for that purpose except urine withdrawn by the catheter.

DR. J. I. BYRNE, St. Joseph: If persistent irritability of the bladder, frequent diurnal and nocturnal urination which does not respond to treatment, general systemic decline, blood pressure below normal, pus or blood in the urine, exists, you have reason to suspect renal tuberculosis.

DR. J. P. HENDERSON, Kansas City: The majority of general practitioners can make the diagnosis without difficulty, but they fail in the treatment. Too often the bladder is held responsible, and treatment is given for a long period until the patient is completely "washed out."

DR. C. R. BURFORD, St. Louis: Every general practitioner should be able to diagnose renal tuberculosis. There are two points to bear in mind: First, never examine voided urine for tubercle bacilli. Second, the initial complaint of the patient generally is of bladder irritability and lessened capacity of the bladder.

Unilateral Renal Hematuria

DR. C. M. NICHOLSON, St. Louis, gave a description of the causes, varieties and pathology of renal hematuria with report of cases and the results of treatment.

DISCUSSION

DR. W. J. FRICK, Kansas City: With the various methods at our command, I believe we can usually make out the cause of this condition. The cystoscope is probably the most important of all the diagnostic methods we have, as it will show which kidney is bleeding and at the time tell us the condition of the other kidney. Next in importance is the Roentgen ray, by which we can ascertain whether the cause of the bleeding is a stone, which is the common cause for renal hemorrhage, or whether there is a tumor present, and sometimes we can obtain an idea of what kind of tumor it is if present. In tuberculosis of the kidney, the Roentgen ray may show caseation. Other methods are the microscopic examination of the urine and ureteral examination. Many cases present no symptoms except the hemorrhage, and these make up the so-called cases of essential hematuria, the diagnosis of which is made only by exploratory operation.

DR. L. T. DUNAWAY, Eldorado Springs: I had a case of renal hematuria with which I worked for eighteen months. Finally I put the patient on nitric acid, 3 drops, three times a day, and in about four weeks she was well. Another woman had suffered for fourteen months, and was weak and anemic. Then she saw a boy fall from a table and was severely shocked. From that day on the hemorrhage ceased.

DR. L. F. BODY, St. Joseph: About twelve years ago, Steinwerk first discovered that renal hematuria was sometimes due to varix in the veins and papillae of the kidney. He curetted the bleeding points, and this was followed by relief of the condition. Others have made similar cures. Renal varix, however, is not the only cause of the trouble. Other pathologic conditions give rise to hemorrhage.

DR. JACOB GEIGER, St. Joseph: In the last few weeks I have operated in three cases which had been treated medically by competent physicians. I exposed the kidneys, but careful examination failed to disclose any pathologic condition. After splitting the kidneys and suturing with catgut, I replaced the organs, and all the patients are apparently well.

DR. E. G. MARK, Kansas City: I have wondered whether the angioneurotic kidney is not responsible for the so-called essential hematuria. To have hemorrhage you must have some pathologic condition; yet we are sometimes confronted by cases in which we operate when no pathologic condition was found beforehand and no abnormal condition discovered later in the laboratory. The operation of splitting the kidney is unquestionably beneficial.

DR. J. E. DEWEY, Springfield: A man of 56 had been suffering from hematuria for three years. I was unable to find anything the matter with the kidney, so I removed it. Later searching showed a small concretion in one of the papillae which it would have been impossible for the man in his anemic condition to throw off. The second case was in a young man, an epileptic, who had been bleeding for fifteen months. We could find no lesion, either before or after nephrectomy. Perhaps these cases would come under the head of angioneurotic kidney.

DR. C. M. NICHOLSON, St. Louis: Since in the majority of cases the symptom, whether or not we know the pathologic condition, is what we are treating, if it can be overcome by simply bisecting the kidney, this is better than to perform nephrectomy.

Factors of Safety in Goiter Operations

DR. VILRAY P. BLAIR, St. Louis: Refraining from radical operation during the height of crises, in the presence of grave degeneration, or functional disturbances of vital organs, is the most important working rule. A more potent factor, but rarely within the surgeon's control, would be to do necessary radical operations at an earlier period of the disease, before goiters reach the intensely toxic stage, before they cause degenerative changes in vital organs, and before they have become fixed in positions that render their removal excessively difficult and dangerous. Except in the presence of imminently grave obstruction, patients with simple goiters who are in poor condition should be nursed along until they are acceptable risks before thyroidectomy is undertaken. Preliminary ligation of thyroid vessels is ordinarily the most effective way of reducing the toxicity of exophthalmic goiters, and the postoperative behavior of the patient serves as a reliable indication as to how well a thyroidectomy would be tolerated. The avoidance of antiseptics and general anesthetics also reduces the liability of postoperative intoxication. Preservation of the integrity of important structures, the recurrent laryngeal nerves, parathyroids, the trachea and pharynx, is best assured by careful hemostasis during operation, the extraglandular ligation of the thyroid arteries and the preservation of the posterior capsule of the gland.

DISCUSSION

DR. W. T. COUGHLIN, St. Louis: We do not have the selection of cases in our hands. Usually the patient is sent to us with the expectation that we will operate. If the profession were educated to the point where patients would be sent to the surgeon as soon as response to medical treatment fails, the surgeon's work in selected cases would be greatly simplified. If the goiter has developed very rapidly, it is just as well to let it alone. The most dangerous cases are the rapidly growing exophthalmic type. If the patient fails to benefit by rest in bed, surgery should not be undertaken.

DR. V. P. BLAIR, St. Louis: There is one class of exophthalmic goiter which comes to the surgeon in which he will avoid operation if he regards the individual's good, unless forced to take the risk, that is, the goiter which has gradually led up to crisis, which has existed for a long time and shows evidence of degeneration, especially if mental symptoms are developing. Very interesting at present is the question of operating in those cases in which there is a suspicion of involvement of other ductless glands. Our present position is that, given a case of exophthalmic goiter, regardless of what other ductless glands may be involved, the removal of thyroid tissue will help the patient.

DR. ROLAND HILL, St. Louis: One point which ought to be emphasized is that goiters giving rise to nervous symptoms, especially in women over 25, should be seen by the surgeon before marked degeneration occurs.

Gastro-Enterostomy

DR. HERMAN E. PEARSE, Kansas City: The average length of time that patients endure dyspepsia and various stomach symptoms due to gastric and duodenal ulcer before coming to the surgeon for cure by gastro-enterostomy is fifteen years. The symptoms that bring patients to successful operative cure are pain, loss of weight, vomiting and hemorrhage.

DISCUSSION

DR. WILLARD BARTLETT, St. Louis: We do not operate for ulcer. We do not know what causes an ulcer, nor does any surgical operation cure the operation per se, an ulcer always being a secondary condition. We operate for certain complications of ulcer, and obstruction is the one which most

commonly brings the patient to operation. Perforation practically always demands immediate operation; we operate for small repeated hemorrhages which gradually deplete the patient; we operate for cancer on an ulcer basis and for "medical failures," although not using that term in any sense as a criticism, because from the very nature of the facts, many medical treatments are bound to fail. I do not believe that more than two fifths of all ulcers are surgical; three fifths are greatly benefited if not actually cured by such methods as are used by Sippy and others. Five forms of operation are applicable to ulcer, according to the case. Certain operators resect the ulcer-bearing area. Certain others resort to blocking the stomach at some point so that food cannot go over the ulcer area, and a drainage operation is done. Then there is excision of the ulcer, the fourth method, pyloroplasty, which is seldom used, and the fifth method, gastro-enterostomy, which is by far the most frequently used and the most useful of all operations for this condition.

A Question in Dealing with Abdominal Adhesions

DR. FRANK G. NIFONG, Columbia: The formation of abdominal adhesions is one of Nature's methods of limiting the extension of the infection. The observation of adhesions in animals indicates that Nature provides those most exposed to infection by habits and environment with the greatest ability to form adhesions. Resistance to peritoneal infection seems to be in direct proportion to the animals's power to form adhesions. The kind of infection producing the inflammation has something to do with the readiness by which adhesions are formed. Late postoperative shock, so-called "secondary shock" is not truly shock, but is due to the overwhelming of the nerve centers by the sudden turning loose of a large dose of protein poison. Theory is not incompatible with Crile's kinetic theory, but the application of the principles of anoci-association is impracticable. Breaking down old adhesions, breastworks in the presence of leukocytosis, or active battle in war analogy, would seem to be treasonable. What is needed from a surgical standpoint is some index to the patient's resistance and the amount of operative procedure permissible.

DISCUSSION

DR. H. E. PEARSE, Kansas City: The presence of the retained shock is correctly attributed by Dr. Nifong to the blow of extensive internal dissection. But when the heart is struggling under a load of infection, it seems to me a poor plan to add 30 or 40 ounces to the circulation by intravenous transfusion. It is desirable to dilute the blood and dilute the toxemia. I have seen two patients die very promptly from this method of treatment. The water should be placed under the skin where Nature can make use of it if she wants to take it up, but it should not be put into the circulation. The one thing that has pulled these patients through for me whenever everything else failed is atropin.

DR. W. T. COUGHLIN, St. Louis: I believe that delayed shock always indicates latent hemorrhage. The patient who dies from shock never reacts after the primary operation. Epinephrin is a very dangerous drug and should be used, if used at all, with extreme caution.

Tumors of the Carotid Body

DR. C. W. RUSSELL, Springfield, cited a case of ten years' standing, with a brief review of the anatomy, physiology and embryologic features so far as they have been investigated.

DISCUSSION

DR. J. F. BINNIE, Kansas City: About twenty years ago I operated for a tumor that I had diagnosed lymphangioma on the right side of the neck. In the course of the operation I changed my mind, and told the students present that I thought it was one of those cases then recently described in English literature as a potatolike tumor of the neck which had crystallized into tumors of the carotid. If I remember rightly, I dissected the tumor out without ligating the carotid vessels. The diagnosis of tumor of the carotid body was confirmed by Dr. Frank Hall. The subsequent history of the case was lost in the chaos which surrounded all city hospital records in Kansas City at that time.

DR. C. W. RUSSELL, Springfield: About two years following the removal of the tumor, there appeared on the opposite side of the neck a small, freely movable tumor, which was properly located and which I removed. It proved to be a hypertrophy of one of the lymph nodes.

ASSOCIATION OF AMERICAN PHYSICIANS

Thirtieth Annual Meeting, held at Washington, D. C., May 11-13, 1915

(Continued from page 2091)

A Method of Determining Total Plasma and Blood Volume

DRS. L. G. ROWNTREE, N. KEITH, and J. T. GERAGHTY, Baltimore: The method consists of injecting into a vein a given quantity of nontoxic, nondialysable red dye; in three and six minutes, specimens of blood are taken and the degree of dilution of the dye determined. A standard solution is prepared by securing some blood before the dye is injected, and diluting an amount of dye equal to the dose to 4 per cent. of the body weight, using for the diluent 1 part serum and 3 parts salt solution. When the blood is taken after the injection of the dye, the serum is separated, diluted and compared with the standard solution: from this point the calculation is easy. The loss of the dye from the human circulation has been found to be only from 1 to 2 per cent. The dye cannot be found in the tissues, and it is not believed that it goes into the blood cells, either red or white. The average figures in normal individuals indicate that the blood volume should be 85 c.c. per kilogram, or about one twelfth the body weight. In essential hypertension and in diabetes, the blood volume has been found to be normal. In pregnancy there is a large increase in the blood mass which does not disappear until from seven to ten days after delivery. This would seem to be a physiologic preparation for hemorrhage.

Simple Method of Determining Variations in the H Ion Concentration in the Blood

DRS. L. G. ROWNTREE, MCKIM MARRIOTT and R. L. LEVY, Baltimore: The method consists of adding an indicator (phenolsulphonephthalein) to the dialysate of blood serum and comparing with a solution of known H ion concentration. The normal figures for H ion concentration are from 7.6 to 7.8. Many cases have been studied, among them twenty cases of acidosis, all of which have shown a concentration toward the acid side, as low as 7.0. In experimental acidosis, the readings went as low as 6.7, at which point the animals died. In alkalosis, the readings may go up to 8.0 or 8.1, when the animal dies. By this method the buffer values of the blood may be determined, and in acidosis the buffer values are very low. It is an easy method to study both acidosis and alkalosis from the blood side.

Case of Severe Anemia with Leg Ulcer and Remarkable Blood Findings

DRS. JEROME E. COOK, JEROME MEYER and GEORGE DOCK, St. Louis: The case is one of severe anemia occurring in a young mulatto girl. There is a complication of recurring, indolent, leg ulcers. The red cells show the greatest degree of variation both in size and shape, giving the appearance as if many of the cells had been broken into fragments; but the most frequent abnormal type is a much elongated, curled red cell often more or less sickle shaped. Among the white cells an eosinophilia of varying and sometimes intense degree is the most marked feature. The other children in the family (two), are dead; both suffered from severe anemia. Two similar cases are recorded in the literature; both cases were in mulattos and both had a chronic type of leg ulcer.

Unusual Condition of the Blood in Primary Pernicious Anemia

DR. N. E. BRILL, New York: A woman, aged 43, mother of five children, nonsyphilitic, presented all the classical signs

of a primary pernicious anemia, which began one year ago, insidiously, with gradually increasing sense of fatigue and later weakness with disturbed gastric symptoms, as vomiting for three weeks, and eructations of gas. Six weeks before coming under observation, weakness became extreme, and the skin pale and light yellow; visual power markedly diminished; cardiac palpitation, tinnitus aurium and vertigo were complained of; there had been no bleeding from the mucous membranes or into the skin. Six pounds were lost in weight during the year. Physical examination revealed a yellow skin, a slightly enlarged liver, a relatively larger spleen which could be felt over 3 c.c. below the costal border; tender tibiae and sternum, and a blood picture of high color-index (1.5) and the associated conditions of the cells indicating the presence of an anemia gravis. A transfusion of blood was done, followed in thirty-six hours by a splenectomy; following this an absence of the usual bone-marrow reaction was noted, though there was a gradual physical improvement in the patient, to the extent that she could walk again without the distress which had previously existed. In five weeks after her discharge from the hospital, there was a furibund recurrence in her symptoms which brought her back to the hospital in a worse condition than at any previous time. The blood then showed a tremendous loss of red cells, an increased activation of the leukoblastic and the erythroblastic tissues of the bone marrow, the circulating blood containing early myelocytic forms of cells, "myeloblasts or myelogones," of which a large number were phagocytic, containing one or more red cells in their cytoplasm, and a myelocytosis of 21 per cent., all accompanied by a hemoglobinemia and hemoglobinuria with the final blood picture of an acute myeloid leukanemia (von Leube) immediately before death. No necropsy could be obtained. The question arises, What relationship, if any, had the splenectomy on this unusual activation of the bone marrow?

Metabolism Studies Before and After Splenectomy in Congenital Hemolytic Jaundice

DRS. SAMUEL GOLDSCHMIDT, O. H. PERRY PEPPER and R. M. PEARCE, Philadelphia: The patient had had a severe anemia from birth with the later usual history. Metabolism studies were made both before and after splenectomy. The blood picture after operation showed marked improvement. In general, the studies indicated a tendency to lose nitrogen before splenectomy and to retain nitrogen afterward; the operation seemed to restore the capacity for nitrogen utilization. There was a high elimination of uric acid before splenectomy, with a drop of 47 per cent. in uric acid output after the operation. The iron elimination before splenectomy was 50 per cent. above the intake; after operation the iron elimination was greatly reduced. There was also a reduction of 90 per cent. in the urobilin elimination in the feces. These figures seem to support the evidence of the real benefit of the operation. Removal of the spleen seems to remove the toxic agent or the source of it, and in addition the hemolytic agent is removed as well.

Plasmaphaeresis

DRS. J. J. ABEL, B. B. TURNER, E. K. MARSHALL, JR., and P. D. LAMSON, Baltimore: Among the many points of view from which one may study the minute structures of the blood, the relation of cells to plasma led to experiments which consist of the removal of the plasma of withdrawn blood and the return of the cells to the circulation, a process to which has been given the name plasmaphaeresis. The method is as follows: An animal is bled very freely, almost to fatal exsanguination, the blood caught in a solution of herudin to prevent coagulation, diluted to double its volume with Locke's solution, centrifugalized and the supernatant plasma discarded. The cells are now diluted to the original bulk of blood with Locke's solution, and restored to the circulation of the animal. This may be done repeatedly from time to time without injury to the animal. Blood pressure estimations showed that the low pressure of the exsanguinated state was well restored on the return of the fluid to the vessels. It was also found that leech extract is not toxic, at least to the extent in which we use it. But since the war, the supply of leeches has been interrupted and a manufactured herudin has been tried; this product is very toxic, quantities as small as 10 mg. being sufficient to kill animals with symptoms of great shock.

Preservation in Vitro of Living Erythrocytes

DRS. PEYTON ROUS and J. R. TURNER, New York: There are several practical purposes involved in attempts to preserve intact mammalian red blood cells: for culture materials in the cultivation of plasmodia; for readily available indirect transfusion material, etc. Washed cells were first used, but were found to disintegrate very early. The addition of citrated plasma prevents this injury. Gelatin, in the proportion of 0.125 per cent. in Ringer's or salt solution will also protect the cells for a long time. Cells were tested by shaking to compare their fragility when thus treated with their fragility to hypotonic salt solution: there was no relation between the degrees of fragility, though bloods differ in their behavior in this regard. Human blood cells can be washed without injury. Cells are protected but not preserved by gelatin; the addition of glucose or saccharose, however, to gelatin Ringer's solution will preserve the cells for a long time. Cells that have been kept several weeks take up and surrender oxygen normally, do not clump or show morphologic change, and behave normally in the Wassermann reaction. Rabbits were exsanguinated, and preserved blood used to supplant that withdrawn; the animals were fully restored and behaved normally after the operation. Many tests corroborated this experience. Rabbit blood can be kept alive at least two weeks. Human blood can be kept for several weeks in dextrose-gelatin solution. Effete blood cells when introduced into the circulation can take up and give off hemoglobin, but they quickly disappear from the circulation; but when the animals are treated by the introduction of blood preserved in the manner described, no changes can be found afterward, even in the spleen.

Clinical Studies in Blood Transfusion

DRS. E. LIBMAN and R. OTTENBERG, New York: In simple hemorrhage, the results of transfusion were uniformly good, especially in hemorrhage of gastric and duodenal ulcer. Transfusions made during the progress of the hemorrhage acted equally well as when made after the accident, and seemed to encourage spontaneous arrest of the effusion. In six cases of dysentery, transfusion was followed by marked improvement. In seven cases of typhoid hemorrhage, nine transfusions were done with two recoveries. Transfusion is useful in operative work, both before and after operation; but it is of no help in surgical shock. In purpura hemorrhagica, transfusion was done twelve times in nine cases; six patients recovered, the two deaths being in cases occurring shortly after pregnancy. In this disease, transfusion appears to have a direct curative value. For hemophiliacs, a donor should be picked in advance for possible needs. For prophylactic purposes, a small transfusion every few months may be useful. Transfusion is much more helpful than the injection of serum. For the treatment of postoperative hemorrhage in obstructive jaundice, transfusion was not of material benefit. The suggestion was made that in this condition there should be a preliminary bleeding with a large transfusion from several donors. In pernicious anemia and leukemia, the results were not uniformly good. In twenty-five cases of pernicious anemia, fourteen showed for a time progressive improvement; eight of these patients are alive at the present time, but they all present evidences of blood trouble. In eleven cases, transfusion was of no avail; two cases were also splenectomized without improvement. In one case, there were four transfusions, followed later by splenectomy; a remission then took place. Transfusion does more than anything else to abate the blood symptoms. It is important to try several donors when no improvement follows one or more transfusions from a single donor.

The effect of transfusion on the symptoms of pernicious anemia may be summarized thus: The appetite improves, the mental symptoms grow better, the glossitis clears up, and the blood picture improves; but the spinal cord symptoms do not improve. There is fever in 50 per cent. of the cases;

some become afebrile after transfusion. The fever may be due to toxic causes or to the anemia. In this disease, splenectomy is advisable; if no remission occurs after the operation, then transfusion should be done; or if remission does not follow transfusion, then splenectomy should be resorted to. We may thus determine the relative values of the two methods of treatment. In leukemia, there was some improvement following transfusion in a number of cases; but it was not lasting. In acute infections, transfusion has no very large field of application. Patients may be helped along by it at times, but the best results are to be had in long-continued subacute infections. In endocarditis with retention of infection, transfusion does good only to the extent of prolonging life for a time. The Unger method of direct transfusion and the Weil citrate indirect method are the best, and will supersede all others.

Discussion on Blood and Blood Diseases

DR. R. C. CABOT, Boston: In six cases of pernicious anemia, splenectomy has been done in the past four months. No marked improvement could be noted in the first two or three weeks after splenectomy; then there was a rapid rise in the cell count, more rapid than that which may be noted in a spontaneous remission or after treatment by transfusion or salvarsan. All of the cases have gone above 4,000,000 in the cell count. Four out of the six patients are now at work, whereas before the operation they were entirely helpless. The blood still shows very definite changes.

DR. JOSEPH L. MILLER, Chicago: Removal of the spleen does not remove the hemolytic agent; it seems to stimulate resistance of the cells and the bone marrow, so that the blood recovers somewhat in spite of the hemolytic agent. I recall a case in which there were progressively increasing spinal cord lesions after splenectomy, thus further indicating the retention of the hemolytic agent.

DR. R. WEIL, New York: Concerning the toxicity of sodium citrate, I used enough to keep blood fluid and in some cases to preserve such blood as long as two weeks, and then to reintroduce this blood into the circulation of animals without toxic effect. In man, 5 gm. of the citrate may be injected without producing any symptoms. The use of sodium citrate and of citrated serum has been found to have the curious effect not of increasing the coagulation time but of decreasing it. This observation may play an important rôle in the treatment of hemorrhagic diseases.

DR. THEODORE C. JANEWAY, Baltimore: My work on the arteries has shown such a lethal effect of sodium citrate on the arterial walls that it suggests caution in the use of citrated blood. Perhaps the citrate used in a transfusion is too dilute to do any harm. The results of transfusion in cases of pernicious anemia coming under my observation have been even better than those reported by Dr. Libman.

DR. J. J. ABEL, Baltimore: I have observed relaxation of the intestinal strip in citrate solution, but this is not comparable to work in vivo.

DR. R. WEIL, New York: I have injected as much as 1,400 c.c. citrated blood without producing symptoms, and I have given 5 gm. sodium citrate in water a number of times without untoward effect.

DR. PEYTON ROUS, New York: It is possible to use kept corpuscles without citrate by sedimenting and pipeting off the plasma. In using preserved blood, it must be remembered that dextrose delays clotting.

DR. W. S. THAYER, Baltimore: I have a patient who has a grave secondary anemia with a leukocytosis of 20,000. There is an increased resistance to hypotonic salt solution and a great increase of vitally staining cells.

DR. E. LIBMAN, New York: Dr. Lewis has been working with herudin and has observed the same toxicity of the manufactured article to which Dr. Abel has called attention. I would not be in favor of separating cells from plasma in transfusion work as suggested by Dr. Rous. I have seen one case in which mild diarrhea followed the transfusion of citrated blood. The symptom was trifling and its significance doubtful.

DR. N. E. BRILL, New York: Metabolism studies in my case of pernicious anemia showed no difference in iron elimination before and after splenectomy. With better protection of cells and greater production after splenectomy, it stands to reason that there should be a retention of blood. Lecithin is known to protect blood cells, but in my case there was no increase of lipoid in the blood after splenectomy.

Treatment of Tetanus by Antitoxin Given Intraspinally

DR. MATTHIAS NICOLL, JR., New York: Experiments were made to ascertain the value of intrathecal administration of antitoxin. Guinea-pigs were given twice the minimum lethal dose of tetanus toxin; they died in three days. Pigs treated thus were given antitoxin by injection into the heart cavity; they died in from five to eight days. Tetanic pigs treated by injecting antitoxin into the sciatic nerves did no better. But pigs treated by injecting one twentieth the dose of antitoxin used in the other animals into the spinal canal recovered. Several pigs were allowed to grow so tetanic that they were twisted into grotesque shapes; out of six treated by intraspinal injections of antitoxin, three recovered. Twenty human patients were treated with intrathecal injections of antitoxin, and sixteen out of the twenty recovered. The method of treatment recommended is to give from 3,000 to 5,000 units into the spinal canal, diluting the serum to from 10 to 20 c.c. to make it thin and easily diffusible; posture is not required to assist diffusion. In addition, 10,000 units should be given intravenously. The intraspinal injection should be repeated in twenty-four hours and if necessary, the intravenous injection should be repeated also. By this method, the mortality of tetanus has been reduced to 20 per cent.

(To be continued)

AMERICAN PEDIATRIC SOCIETY

Twenty-Seventh Annual Meeting, held at Lakewood, N. J., May 24-26, 1915

(Concluded from page 2094)

Allergy to Common Foods

DR. OSCAR M. SCHLOSS, New York: A number of cases of eczema and bronchial asthma prove to be due to food allergy. A satisfactory result can be obtained in some of these cases, but not in all, because there is a lack of proper substitute foods, and it is difficult to secure the reaction in all cases. The guinea-pigs used in these experiments were divided into two groups, one of which was egg fed. After thirty-five days, they were found anaphylactic. Of the others, which were fed on egg for several months, none had developed immunity. The treatment should consist either in the administration of gradually increasing amounts of the toxic protein, or in eliminating the offending protein from the diet.

DISCUSSION

DR. JOHN HOWLAND, Baltimore: These children are sensitive to so many proteins that it is hard to give them a food on which they can be nourished. The subcutaneous test is more sensitive than the cutaneous, but more difficult to interpret. This differs somewhat from anaphylactic shock, in that it is impossible to produce passive sensitization in animals or to obtain precipitins from their blood.

DR. FRITZ B. TALBOT, Boston: The longest absolute cure I have had is three years. In about 60 per cent. of a large number of cases of asthma that I have seen recently, I have found a positive skin test to some food. Egg was the most common offending article.

DR. S. MCC. HAMILL, Philadelphia: In some investigations which I have been making, I have been struck with the number of times I have obtained the reaction in children with no very definite manifestation of anaphylaxis, but with gastro-intestinal trouble accompanied with recurrent attacks of diarrhea.

DR. ROYAL S. HAYNES, New York: I have treated several cases of asthma in which the child was sensitive to egg, and in which it was also necessary to limit the amount of chicken. If the child ate a little egg or chicken, but not sufficient to develop asthma, it would get a return of eczema.

DR. ROWLAND G. FREEMAN, New York: Many children have been injured by the assumption that they have an idiosyncrasy to cow's milk. I have found none that I could not give it to, if I began with a small amount and gradually increased it to a normal quantity.

DR. ISAAC A. ABT, Chicago: While some children take care of these foods badly, others can take them without any toxic response; and the question is whether the result is due to an abnormality in the food or in the child. If in the latter, have we any means of classifying this idiosyncrasy on the part of the children?

Adaptation of an Artificial Food to Human Milk

DRS. H. J. GERSTENBERGER, H. D. HASKINS, H. H. MCGREGOR and H. O. RUH, Cleveland: There is a means of eliminating the low volatile fatty acids, for the homogenizer makes it possible to mix this fat with other constituents of the food in the form in which it exists in breast milk, and also to add any other thing that further investigation may develop, thus affording a practical method of getting much closer to securing for the great bulk of children in the cities a food which needs no dilution and can be fed to a young infant, as well as to an older one. The bacterial content is very low. The food is cheap, and will probably prove of great value to the general practitioner.

Homogenized Olive Oil-Fat-Free Milk Mixtures in Cases of Difficult Feeding

DR. MAYNARD LADD, Boston: Foreign milk usually contains a much higher percentage of fat than foods given in its place. This fact led to experimentation with other foods. By homogenizing, we are able, in cases of intolerance to cow's fat, to combine these foods with skimmed milk and produce a perfect emulsion. We can combine chemically pure casein with pure oils and pure sugars. My experiments thus far justify me in believing that in this way a food can be obtained which can be given with great improvement to the health of the patients. Olive oil combined with fat-free milk might be of great value, for olive oil costs only about a fourth as much as cream. I have had success with this method of feeding in one or two very difficult cases, but my experience has not yet been sufficient to warrant me in drawing conclusions.

DISCUSSION

DR. B. RAYMOND HOOBLER, New York: There are two types of fats: those which come from glandular tissue and those which are not glandular in type. Animals are not sufficiently or properly nourished on the latter kind of fats, but when glandular fats are added to their food, nutrition takes place. An increase in weight is not sufficient evidence of true nutrition; the animals must be able to produce normal offspring. Animals fed on nonglandular fat are unable to do this. We should inquire whether the foods suggested are capable of fulfilling this standard of nourishment.

Composition of Woman's Milk

DRS. L. EMMETT HOLT, ANGELIA COURTNEY and HELEN M. FALES, New York: After the first month there are no practical differences in the composition of the milk until the end period. The fat is highest in the transition period. In the late period, it was as high as in the mature period, except in one case. In only one case was the sugar less than 7 per cent., and in over half the cases it was over 8 per cent. It showed a diminution in quantity up to the late period. The protein did not differ much from the amount found in the early period. The milk differed but little in composition at the various ages. The total ash is practically the same in all. The ratio between the protein and the ash in human milk is practically the same as in cow's milk in the mature period, 1:5. In cow's milk, in ordinary dilutions, we are giving more mineral than the child really needs.

DISCUSSION

DR. HENRY J. GERSTENBERGER, Cleveland: What were the iron determinations?

DR. THOMAS S. SOUTHWORTH, New York: One of the interesting things is the high fat in the transition period. The bad effects of this high fat content of the mother's milk at this stage can be overcome by diluting it with some alkaline solution. The fact that the fat is normally high at this time and then begins to decrease shows that Nature comes to our aid by lowering the amount of fat.

DR. L. EMMETT HOLT, New York: The percentage of iron found by other observers is 1.7 mg. in 1,000 c.c. of milk.

Sugar in Infant Feeding

DRS. CHARLES H. DUNN, Boston, and LANGLEY PORTER, San Francisco: Eighteen patients were observed, 108 samples of urine tested, and 235 tests made. Twelve of the eighteen cases showed reducing bodies on some tests. Eight showed a loss in reducing power after shaking the picric acid. The majority were difficult feeding cases. None showed marked intolerance to any of the food elements. The effect of increased sugar on the weight of the babies was surprising. They gained rapidly at first, but less rapidly after sugar intolerance developed. It is our belief that the idea of sugar intoxication has been so exaggerated as to keep us from trying the effect of large amounts of carbohydrates for babies who show an inability to take a sufficient amount of food. Some children have been much benefited by pushing the amount of sugar temporarily above the ordinary limits.

DISCUSSION

DR. OSCAR M. SCHLOSS, New York: Some results that we obtained about a year ago did not accord with those cited. In many instances we found that the infant's urine would reduce copper, and occasionally bismuth. In a number of instances we were able to determine that the reducing substance was sugar. This sugar, however, was not lactose. It was a monosaccharid, sometimes dextrose and sometimes galactose.

DR. LANGLEY PORTER, San Francisco: There is no necessary antagonism between these findings and those in our paper; these were cases merely of disturbance, and not of intoxication. The interesting thing was the presence of reducing bodies other than sugar in such a large proportion of the urines of infants.

DR. I. A. ABT, Chicago: The idea of Finkelstein and his school is that sugar or any other food element finds its way into the circulation because there is a damaged intestinal wall. It is not damaged by the sugar or any other food, but by bacterial action or the toxic product resulting from bacterial action. Food intolerance merely means that the food breaks through the intestinal barrier.

DR. L. EMMETT HOLT, New York: What about the permanence of the gain in weight in these children? A child can have intolerance for a small amount of sugar and tolerance for a large amount. We have seen so many symptoms in children getting small amounts that we have hesitated to give a larger amount of sugar.

DR. HENRY KOPLIK, New York: There is a limitation to the amount of sugar we can administer to these children. If you persist in administering this large amount, the children gain for a while, then stand still, and finally lose.

DR. HENRY J. GERSTENBERGER, Cleveland: A high protein content will allow of a much higher percentage of sugar, and a low one most likely limits the amount.

DR. DEWITT H. SHERMAN, Buffalo: Some studies made by us seem to show that lactose stimulates motor function in the stomach more than either cane sugar or malt sugar. That, however, is probably not true, for the reason that the secretion following the ingestion of lactose was no greater than after the other two. We concluded that cane sugar stimulates the gastric secretion a little more than lactose, but that dextromaltose stimulates the secretion twice as much as lactose.

DR. J. P. CROZER GRIFFITH, Philadelphia: Last winter I tried feeding infants with foods rich in carbohydrates, and found they did very well, being able to tolerate from 10 to 13 per cent. perfectly.

DR. CHARLES H. DUNN, Boston: The problem we are studying is the possible damage produced by sugar. In this series of cases, the gain in weight was maintained, but the sugar was immediately cut down when symptoms of intolerance developed. I believe that the chief cause of those severe cases in which fat cannot be taken is prolonged overfeeding with sugar. The amount of protein given was 2.5 per cent. We found that many specimens of lactose contain gas bacillus spores and other things that tend to lead to trouble and make us draw wrong conclusions.

Indications for Treatment of Severe Diarrhea in Infancy

DRS. JOHN HOWLAND and W. MCKIM MARRIOTT, Baltimore: We tested the alveolar air in infants, and found that the carbon dioxid tension in such cases is lower than in health, especially if dyspnea is present. This low tension is an evidence of acidosis. Giving alkalies in large quantities causes the carbon dioxid tension to rise and the dyspnea to disappear. Cathartics should not be given unless there is distention of the abdomen accompanied by fever. Opium should be administered in sufficient quantity to prevent more than two or three stools a day, and alkali (preferably sodium) given, with water, in sufficient quantity and often enough to cause the dyspnea to disappear and to overcome the diarrhea. The condition is not a food intoxication, but the absence of a substance necessary to life.

DISCUSSION

DR. HENRY KOPLIK, New York: Opium is a dangerous drug in these cases, sending the children into a deeper stage of intoxication. Why attempt to stop peristalsis? Diarrhea is a means by which Nature eliminates a certain amount of poison.

DR. OSCAR M. SCHLOSS, New York: In some work which I did during the past year, I obtained results exactly comparable to those of Dr. Howland. In cases of severe intoxication and dyspnea, there was a marked lowering of the carbon dioxid in the blood.

DR. HENRY J. GERSTENBERGER, Cleveland: I should like to know the dose of alkali which Dr. Howland gives.

DR. CHARLES G. KERLEY, New York: Opium is one of the best drugs to use in intestinal diseases, but it must be used carefully. Drainage may be so excessive as to exhaust the patient.

DR. I. A. ABT, Chicago: It is important to give these children the proper kind of food to prevent acidosis, as well as to administer alkali to correct this condition.

DR. A. D. BLACKADER, Montreal: We can check peristalsis entirely with a large dose of opium, while, with a smaller one, we can check it just enough to give the digestive fluids a chance to work in the intestine. In cases of normal children, even when a cathartic is given, the stools contain much undigested food. Small doses of opium, repeated often enough to prevent this extreme waste, have never caused any disastrous results, in my experience.

DR. JULIUS P. SEDGWICK, Minneapolis: Study of the creatin-creatinin excretion in these cases of acidosis might aid in clearing up this problem.

DR. JOHN LOVETT MORSE, Boston: If there is something in the bowel that needs to come out, one should give a cathartic; but if everything doing harm is out, and the diarrhea is merely draining the tissues of water and salts, we do harm with a cathartic and good with opium. It is advisable to give alkalies before these severe symptoms develop.

DR. FRITZ B. TALBOT, Boston: In studying a large number of new-born infants, we found that the respiratory quotient was very low on the second or third day of life. It was such a low respiratory quotient as we get with acidosis or diabetes. We have not, however, found acetone bodies in the urine.

DR. JOHN HOWLAND, Baltimore: I dislike the term "acidosis," because it has been applied so loosely to a number of different diseases in which physiologic acidosis is not present. The fact that a small number of bodies of the acetone series can be found in the urine does not prove that acidosis is present. It is only when the protective mechanism of the body is called into play that we can speak of acidosis. If the infant's abdomen is distended, the intestines being full of putrefying substances, and the baby has high fever, opium should not be given. These children do not, however, come in that condition, but with a retracted abdomen, the intestines being empty. It is dangerous to let them have eight or ten large stools a day. I give a few drops of opium after each loose stool. It is surprising how much they can take without influencing their stupor in the slightest degree. We usually give 4 gm. of alkali at a time, subcutaneously, 5 or 6 gm. intravenously, and 3 or 4 gm. by mouth. I believe protein milk, rather concentrated, and in small amount, to be the best food for these patients. The appetite is almost always lost, and many infants vomit everything that is ingested.

Reducing Substance in Spinal Fluid

DRS. OSCAR M. SCHLOSS and LOUIS C. SCHROEDER, New York: The reducing substance in spinal fluid is a fermentable, dextrorotary sugar, probably dextrose. In infants free from meningeal disease, the spinal fluid sugar ranges from 0.05 to 0.134 per cent. Approximately the same figures would obtain in cases of meningismus. The spinal fluid sugar is normal. In epidemic cerebrospinal meningitis, and suppurative forms of meningitis, the sugar is greatly reduced or absent. A large proportion of the cases of tuberculous meningitis show a decrease in the sugar of the spinal fluid. An increase of sugar alone is of diagnostic importance in this disease. The reducing substance was not found decreased in cases of idiocy, cerebrospinal syphilis or anterior poliomyelitis.

DISCUSSION

DR. ALFRED HAND, JR., Philadelphia: I have examined the spinal fluid in many cases, and have found the absence of sugar in suppurative meningitis, and its presence in practically every case of tuberculous meningitis. I have come to depend on this fact in making the differential diagnosis. I believe that the ferment produced by the polymorphonuclear leukocytes causes the disappearance of the sugar in epidemic and suppurative forms of meningitis.

Meningitis in the Newborn

DR. CHARLES HERRMAN, New York: The infection may take place through the placental circulation, but this is probably rare. It may also occur, in cases of difficult labor, through premature respiration on the part of the infant, resulting in the swallowing or aspiration of contaminated amniotic fluid. Infection may likewise take place at birth, through an injury to the skull; or after birth, through the eyes, ears, nose, gastro-intestinal tract, umbilicus or genitalia. From the fact that the *Bacterium coli* is the most common causative agent in such cases, it seems probable that the infection takes place through contaminated water in the bathing tub.

DISCUSSION

DR. HENRY KOPLIK, New York: I have seen several cases of meningitis in the new-born. Babies are considered as new-born in hospitals up to the third month. Most cases are usually of streptococcic origin. One of the cases I saw was a colon meningitis; another was due to a bacillus similar to the typhoid.

DR. L. E. LAFETRA, New York: The symptoms of meningitis are not evident in these cases, the infants showing great depression or symptoms of sepsis. They do not have very high temperatures. Various organisms are found.

A Case of Amaurotic Family Idiocy in One of Twins

DR. CHARLES HERRMAN, New York: Alcohol and syphilis have been considered factors in the etiology of this disease, but it is difficult to see how any condition in the mother could affect only one of twins. These children received breast milk for only two weeks, and it could hardly be considered to be toxic for only one child. The theory of arrest of development must also be given up, because the brain of

the amaurotic infant is normal morphologically at birth and for some time afterward. Then there gradually occurs a degeneration of all the ganglion cells and loss of function. The tendency to degeneration must be born with the child and develop subsequently. Some endogenous factor comes in and affects these children, although it does not do so in one born without this weakness.

Macewen's Sign: Analysis of Anatomic Conditions which Enter Into the Production of this Sign; Its Value in Diagnosticating Changes in Intracranial Pressure

DR. HERBERT B. WILCOX, New York: A positive Macewen's sign exists when variation from the normal note is found. It consists in a relative change, rather than in a definite condition common to all diseased crania. The sign is better elicited by the stethoscope than by the unaided ear. Increased clearness of sound when percussion is made over the posterior portion of the skull, rather than near the stethoscope, is diagnostic. The sign uniformly accompanies conditions of increased intracranial tension, and is not found unless the causative factor exists. It is equally applicable to infants and to older children.

DISCUSSION

DR. L. E. LAFETRA, New York City: To me, the pitch of the sound seems of more value than its loudness. The pitch becomes higher as one approaches the bell of the stethoscope. I think the sign will prove of value in cases that are not meningitis, but meningismus, or some other type of spinal condition with increased spinal fluid.

DR. HENRY KOPLIK, New York: This is the most useful sign we have of beginning tuberculous meningitis, ordinary meningitis and serous meningitis due to otitis media. I find the greatest difficulty in applying the sign in the case of children who have had rickets. It is difficult in them to tell how much the sign is due to the slight hydrocephalus resulting from the old rickets, and how much to the new disease.

Epidemiology of Pneumonias in Children

DRS. GODFREY R. PISEK and M. C. PEASE, New York: From a study of a thousand cases, we have established a mortality rate for pneumonia of 34.3 per cent. Bronchopneumonia is preeminently a disease of the first two years of life, and is relatively uncommon after the third year. Lobar pneumonia is the type present after that period. Omitting those cases which are frankly secondary to some other condition or which occur as a terminal infection, the infection which is the etiologic factor of primary lobar pneumonia is always the pneumococcus; bronchopneumonia may be due to a number of organisms. If pneumococci are present in bronchopneumonia, they are usually one of a group of organisms, or are of low virulence. The pneumonia should be treated with a serum or vaccine derived from organisms belonging to the group causing the infection, or the therapy will be useless.

DISCUSSION

DR. JULIUS P. SEDGWICK, Minneapolis: At Minneapolis, in hospital, as well as in private practice, the mortality from lobar pneumonia in infants and young children is almost nothing.

DR. A. D. BLACKADER, Montreal: A high mortality in lobar pneumonia does not represent the experience we have in Montreal.

Unusual Case of Congenital Heart Disease

DR. JOHN LOVETT MORSE, Boston: A child of 4 years had a severe attack. No murmur could be heard by any one, however, except the house doctor. Nov. 30, 1914, he came to the hospital with the history of having been taken suddenly ill the night before. No murmurs or thrill could be heard. On the following day he was not examined, but the day after, Dr. Howland discovered a murmur, which, however, could not be heard by others. December 4, he developed a diastolic murmur, and later, a systolic murmur. This was followed by a double pneumonia. Within the next few weeks, the murmur diminished, but did not disappear. He then died suddenly, presumably from embolism. Only a partial necropsy was obtained, which showed complete atresia of the pulmonary artery, congenital defect of the intraventricular septum, vegetative endocarditis, an open ductus arteriosus, and atrophy of the right ventricle. Only five other cases like this are said to be on record.

DISCUSSION

DR. ALFRED HAND, JR., Philadelphia: In the few instances in which I have seen such a defect of the septum, the lesion has been in the muscular, rather than the membranous part.

Case of Myelogenous Leukemia in an Infant Nine Months Old

DR. J. H. MASON, Baltimore: The patient was a girl, aged 9 months. The striking feature in the case, besides the age of the patient, was the rapid course of the disease, less than three weeks. There was no enlargement of the lymph nodes or spleen, and no record of hemorrhage or of necrosis of the mucous membrane. The symptoms apparently were entirely referable to the gastro-intestinal tract. The great number of leukocytes in the circulating blood (200,000 per cubic millimeter) is to be accounted for by a possible peripheral infection. The atypical granulations seen with neutrophilic myelocytes as well as in the presence of eosinophilic and basophilic varieties gave evidence that it was a true primary disease of the bone-forming organs.

Current Medical Literature

AMERICAN

Titles marked with an asterisk (*) are abstracted below.

American Journal of Physiology, Baltimore

June, XXXVII, No. 3, pp. 453-517

1 *Active Principles of Different Organs, as Shown in Kymograph Tracings. G. G. Fawcett, J. Rogers, J. M. Rahe and S. P. Beebe, Ithaca, N. Y.
2 *Rate of Oxidation of Enzymes and Their Corresponding Pro-Enzymes. W. E. Burge and E. L. Burge, Chicago.
3 *Effects of Epinephrin Infusion on Vasomotor Irritability. R. G. Hoskins and W. N. Rowley, Chicago.
4 *Distribution of Gastrin in Body. R. W. Keeton and F. C. Koch, Chicago.
5 Researches on Exchange of Energy in Live Animal Tissues. I. Microcalorimetry Applied to Animal Tissues. A. O. de Almeida, Rio de Janeiro.

1. **Active Principles of Organs.**—All the different organs from which the authors prepared extracts, with the exception of the suprarenal, contain a depressor substance within the "residue" portion, which in each case varies in its action directly as its nitrogen content (calculated in terms of protein). The depressor effect of the thyroid "residue" is said to be dependent on a substance containing iodin. When standardized according to its nitrogen content each "residue" produces characteristically different effects in the kymograph tracings. This depressor agent cannot be cholin because a dosage of pure cholin which is comparable to that of a thyroid "residue," for example, produces no effect. The active portion of these "residues" is apparently not the same as Popielski's vasodilatin, which is prepared in a totally different way and gives different reactions.

2. **Rate of Oxidation of Enzymes.**—The Burges summarize their findings as follows: Trypsin is more easily oxidized than trypsinogen. Pepsin is more easily oxidized than pepsinogen. The fact that trypsin and pepsin are relatively easy to oxidize makes it possible for the mucosa of the stomach and intestine to protect itself from digestion by means of its oxidative processes. The fact that trypsinogen and pepsinogen are relatively difficult to oxidize prevents these substances from being oxidized in the cells of the pancreas and of the gastric mucosa during the process of secretion.

3. **Epinephrin and Vasomotor Irritability.**—In forty-four anesthetized dogs the effects of epinephrin infusion on the

irritability of the vasomotor mechanism was investigated by Hoskins and Rowley. The vasomotor mechanism was stimulated by faradization of the sciatic and splanchnic nerves, and by injections of nicotin, epinephrin and pituitary extract, before, during and after intravenous infusion with epinephrin. No concentration of epinephrin gave satisfactory evidence of augmenting vasomotor irritability, or facilitating the transmission of vasomotor impulses. In most cases the infusion lessened the vasomotor irritability—sometimes to a marked degree. The animal's own suprarenal glands played no significant part in the results. The irritability of both the pressor and depressor mechanisms was decreased. The authors conclude that the depression was probably both central and peripheral, hence circulating epinephrin is probably not a factor in the ordinary functioning of the animal economy.

4. **Distribution of Gastrin in Body.**—Evaporation of an acid extract from various tissues leaves a residue, soluble with difficulty, in 95 to 98 per cent. alcohol, which manifests varying degrees of gastrin activity. The gastrin is uniformly distributed throughout the stomach mucosa, is found in much smaller concentrations in the duodenum, and its presence can just be demonstrated in the esophagus. Preparations of pancreas, submaxillary gland, smooth muscle and striated muscle are negative. Gastrin intramuscular doses of 1 c.c. (corresponding to 4 to 5 gm. of fresh tissue) cause a fall in blood pressure lasting over four to five minutes, a secretion lasting over one and one-half hours with a maximum between thirty and forty-five minutes following the injection. The authors believe that gastrin causes a true gastric secretion rather than a simple vasodilator response, that it is of a different chemical nature from pancreatic secretin, and that it is a specific substance.

Bulletin of Johns Hopkins Hospital, Baltimore

June, XXVI, No. 292, pp. 211-240

6 *Accurate Clinical Study of Blood Sugar. S. Strouse, I. F. Stein and A. Wiseley, Chicago.
7 Chorio-Epithelioma of Testicle. J. V. Cooke, San Francisco.
8 Mithridatium and Theriac, Most Famous Remedies of Old Medicine. G. W. Corner, Baltimore.
9 Is Pathologic Metabolism in Parental Organism Responsible for Defective and Monstrous Development of Offspring? E. I. Werber, Princeton, N. J.
10 Medicine in China. R. M. Pearce, Philadelphia.
11 Case of Abscess of Liver, Due to Streptothrix. A. Bloomfield and S. Bayne-Jones, Baltimore.

6. **Study of Blood Sugar.**—The Kowarsky method of determining blood sugar, as modified by the authors, affords an efficient and accurate means of studying blood sugar in man. The normal blood sugar, as shown by a study of sixty-one determinations, varies from 0.04 to 0.12 per cent. (in one instance 0.14 per cent.) with an average of 0.084 per cent. These variations are due to the varying factors in the ordinary day of any normal individual—especially to the diet factor. Carbohydrate in the diet raises the blood sugar. The blood sugar of a normal man describes a curve reaching its lowest limits before breakfast and before dinner, and invariably showing a rise one hour after meals. The authors emphasize the fact that blood sugar determinations, to be of any value, must be performed before and after an ordinary meal containing carbohydrate.

Journal of Experimental Medicine, Lancaster, Pa.

June, XXI, No. 6, pp. 525-652

12 *Study of Barlow's Disease Experimentally Produced in Fetal and New-Born Guinea-Pigs. A. Ingier, Christiana, Norway.
13 *Pure Cultivation in Vivo of Vaccine Virus Free from Bacteria. H. Noguchi, New York.
14 *Transplantation of Tumors to Foreign Species. C. Funk.
15 *Effect of Arsenic Compounds of Rous Chicken Sarcoma. C. Funk.
16 *Antibody Formation Against Treponema Pallidum—Agglutination. H. Zinsser and J. G. Hopkins, New York.
17 *Adult Tertian Malarial Parasites Attached to Peripheral Corpuscular Mounds. Extracellular Relation of Parasites to Red Corpuscles. M. R. Lawson, New London, Conn.
18 *Influence of Digitalis on T Wave of Human Electrocardiogram. A. E. Cohn, F. R. Fraser and R. A. Jamieson, New York.
19 *Effect of Sensitization on Development of Lesions of Experimental Pneumonia in Rabbit. M. B. Kirkbride, Albany, N. Y.
20 Visual Cortex, Its Localization, Histologic Structure and Physiologic Function. E. B. Funkhouser, Trenton, N. J.
21 *Pathogenic Properties of Bacillus Proteus. W. P. Larson and E. T. Bell, Minneapolis.

12. **Barlow's Disease Experimentally Produced.**—Pronounced cases of Barlow's disease were produced by Ingier in the fetus as early as ten to fifteen days after the commencement of dieting pregnant guinea-pigs with oats and water. There are wide individual variations. The scorbutic changes in the skeleton are greatest in the earlier embryonic stages. The fetuses of that period, with practically no exceptions, die and show marked traces of impeded growth. Fetuses from the later period of pregnancy are born alive, and apparently fully developed, with comparatively slight changes in the osseous system. Even a short extension of the period of extra-uterine dieting on milk from scorbutic mothers and later on oats and water is sufficient to change the latent scurvy into a highly pronounced case. The fetus cannot be kept alive longer than the adult animal, about twenty-eight days, either by intra-uterine dieting alone or by combined intra-uterine and extra-uterine dieting. The mothers show signs of disease at an early period, and are more severely attacked than nonpregnant animals. Death also occurs comparatively often in the first period of gestation.

13. **Cultivation of Vaccine Virus.**—Vaccine virus freed from all associated bacteria by means of suitable disinfecting agents was propagated by Noguchi in a pure state in the testicles of rabbits and bulls. The virus cultivated in this manner is not only devoid of all bacteria, but appears capable of indefinite transfer from one animal to another. Sixty passages in rabbits of a pure strain have been made within one year. Several transfers from testicle to testicle are required to bring about accurate adaptation of the virus to the testicular parenchyma, so that continued propagation in this way can be certainly secured. During the first transfers from testicle to testicle the activity of the virus may be less than the original skin specimen from which the pure strain was derived; but as the transfers proceed the activity rises until, when the adaptation is complete, the activity of the testicular equals that of the skin strain. The multiplication of the virus within the testicle is maximum on the fourth or fifth day after inoculation; the quantity of virus remains about stationary until the eighth day, when diminution begins. At the expiration of five weeks no more virus could be dected in the testicle.

The vaccinal processes in the skin, cornea and testicle of rabbits are practically identical whether the virus employed for the inoculation has been the original skin strain or the pure testicular strain; and the skin lesions produced in the calf by means of the two strains are also identical.

Human beings react to the pure testicular strain of vaccine virus in an entirely typical manner. In the case both of original vaccination and revaccination the vaccinal effects cannot be distinguished from those arising from uncomplicated skin virus. Pure strains of testicular virus are readily produced, and once secured they may be propagated in a pure state in rabbits or bulls by the method described, without difficulty and with economy. The pure strains thus obtained should supply an ideal form of virus for employment in the vaccination of human beings.

14. **Transplantation of Tumors to Foreign Species.**—By feeding to rats the tissue of the mouse chondroma, Funk found that they are rendered more suitable as hosts for the growth. Using this method rats have been inoculated successfully with the mouse tumor, and it has been transferred to three successive series of these animals.

15. **Effect of Arsenic Compounds on Rous Chicken Sarcoma.**—Arsenic and arsenious acids, cacodylic acid, atoxyl and neosalvarson failed to influence markedly the growth of the Rous chicken sarcoma.

16. **Antibody Formation.**—It is shown by Zinsser and Hopkins that the serum of rabbits treated with emulsions of *Spirochaeta pallida* contains agglutination substances.

17. **Adult Tertian Malarial Parasites.**—It is claimed by Lawson that the malarial parasite is extracellular throughout its entire life cycle; that is, when it is not free in the blood serum, it is attached to the external surface of the red corpuscle. Adult parasites follow the same procedure in attaching themselves to the outer surface of the red corpuscles, as do the young parasites. Adult parasites are most frequently seen attached to surface corpuscular mounds. Corpuscular mounds projecting at the periphery of the red corpuscles and encircled by the pseudopodia of adult parasites, are proof positive of the extracellular relation of the adult parasite to the red corpuscle. Adult parasites attached to peripheral corpuscular mounds are only found in appreciable numbers when the red corpuscles are not badly damaged, so that the mounds show more or less hemoglobin content. The nuclei or protoplasm of adult parasites extending beyond the periphery of the red corpuscles is additional evidence of the extracellular relation of the parasites to the red corpuscle.

18. **Influence of Digitalis on Human Electrocardiogram.**—It is shown in this investigation that digitalis, administered orally to patients, can modify the T wave in the electrocardiogram. When the T wave in the initial curve is directed upward, the first change noticed is a lowering and the final change is an inversion of the wave. It is not only the wave itself, but that portion of the curve between the end of R and the end of T which is involved. Instances in which the initial T waves have other than upright forms are described and their behavior under the influence of digitalis has been indicated. This influence of digitalis on the T wave may be detected in thirty-six to forty-eight hours after the administration of digitalis has commenced; it may persist as long as twenty-two days after the administration has been stopped. Instances in which it persisted only five days have been encountered. The unexpected length of duration of the sign probably explains why a second treatment with digitalis requires a smaller amount of the drug to produce the same effect than the first.

19. **Experimental Pneumonia in Rabbit.**—Kirkbride's study would seem to give some ground for the view that while in pneumonia a hypersensitive condition probably takes some part in the inception of the infection, the subsequent development of the diffuse exudative reaction in the lung is not directly due to an acquired hypersusceptibility, but to intrinsic qualities possessed by the pneumococcus itself.

21. **Pathogenic Properties of Bacillus Proteus.**—The first proteus strain with which Larson and Bell experimented was isolated from a laparotomy wound in a case which subsequently terminated fatally. The proteus was repeatedly isolated from this patient in pure culture. The second strain was isolated from a severe eye infection following a cataract operation. A third strain was isolated from an infection of the finger, believed to have been contracted at a necropsy. A fourth was isolated from the heart's blood in a case in which the patient had died from peritonitis following a gunshot wound of the intestines. The fifth strain was from a patient with gangrene of the lung. These organisms all proved to be pathogenic for rabbits. All cultures obtained from sources other than human infections were nonpathogenic for the laboratory animals. A nonpathogenic culture may be made pathogenic by the use of aggressins or by inoculation into the anterior chamber of the eye. Proteus cultures lose their virulence rapidly when grown on artificial mediums. The lesions produced in animals are either simple abscesses, proliferative lesions, or a mixed exudative and proliferative lesion. The proliferative lesions consist mainly of epithelioid cells apparently of connective tissue origin. No giant cells of the Langhans type are present. The histologic type of the lesion does not depend on the strain employed. Neither does it bear any relation to the clinical severity of the case. The ability to produce the characteristic lesions has no necessary connection with the toxicity of the bacteria. The authors suggest that the proteus bacteria probably play a more important part in human pathology than is generally believed.

FOREIGN

Titles marked with an asterisk (*) are abstracted below. Single case reports and trials of new drugs are usually omitted.

British Medical Journal, London

May 22, I, No. 2838, pp. 877-916

1 *Treatment of Toxemia of Later Pregnancy; Report of Cases. J. Byers.
2 Dressing Station in France. G. R. Ward.
3 Some Infections of Tonsils. F. C. Pybus.
4 *Successful Sterlization of Skin with Tincture of Iodin. J. L. Stretton.
5 Typhus in Palestine, 1913 to 1914. C. H. Corbett.
6 Admission of Men with Glasses into Army. A. A. Bradburne.

1. **Treatment of Toxemia of Later Pregnancy.**—Byers emphasizes that every effort should be made to relieve the kidneys by getting the skin and bowels to act and by the administration of a simple nonnitrogenous diet. If there be headache or edema the patient, in addition, should be kept in bed and should have hot baths, free purgation and a milk diet; and if the state of affairs becomes more severe, warm saline lavage of the stomach and intestines is useful. In the nephritic cases, if in spite of this method of management the patients get worse, labor should be induced. One of the most important points emphasized is that a pregnant woman's urine must be analyzed once a month during the first six months of gestation, and at least once a fortnight after that period. Since adopting this routine method, Byers has not had in private practice during the past fifteen years a single case of eclampsia, as prompt measures taken when an examination of the urine showed any considerable amount of albumin (under these circumstances a catheter specimen should always be obtained), and with it any diminution in urea and nitrogen output, warded off all risk of convulsions and coma.

4. **Sterilization of Skin with Iodin.**—Stretton claims to have been the originator of this procedure, which he first described Aug. 14, 1909. He has now used the method with satisfaction in upward of 3,000 cases, and has never seen any dermatitis result from the use of the tincture of iodin. There is sometimes a limited amount of desquamation. The solution he originally used was the tincture of iodin (B. P.). It is prepared by dissolving 2.5 per cent. of iodin and 2.5 per cent. of potassium iodid in rectified spirit. In an endeavor to save the funds of the hospital he tried a solution of the same strength in methylated spirit, but soon found that it produced so much irritation and lacrymation that he was obliged to resume the original compound. He now uses the tincture in the theater and a similar solution made with methylated spirit in the wards.

Lancet, London

May 22, I, 4786, pp. 1065-1112

7 *Some Infections of Tonsils. F. C. Pybus.
8 Treatment of Septic Wounds. A. M. Sheild.
9 *Heart Perfusion with Excretory Toxins. D. T. Barry.
10 Influence of Injections of Contratoxin No. 4 (Mehnarto) on Content of Opsonins in Blood Serum of Tuberculous Patients. R. T. Hewlett and L. Rajchman.
11 Progress in Treatment of Cataract in India. H. Smith.
12 *Two Extraordinary Cases of Liver Abscess. C. B. Pasley.
13 Cerebrospinal Fever and Sphenoidal Sinus. D. Embleton and E. A. Peters.

7. **Some Infections of Tonsils.**—The principles to be adopted in the treatment of tonsillar disease are summed up by Pybus as follows: So far as the individual is concerned, when the symptoms are mainly or entirely mechanical and fail to subside in three months after removal of any source of infection, partial removal may suffice. Tonsillotomy, however, has this disadvantage, the basal portion of the tonsil may enlarge and again cause symptoms. In addition to this, many hypertrophied tonsils, so far as can be ascertained on inspection, do not appear to be grossly infected. In those cases which are grossly infected the basal portion, often the most diseased, is left behind and may commence to give trouble, especially if some of the lacunae become partially or entirely sealed up in the process of healing. When infec-

tive symptoms predominate in the tonsil itself, such as acute tonsillitis or chronic lacuna infection, or when the tonsils are in addition enlarged, any source of infection must be removed, especially carious teeth. Nasal breathing must be reestablished, and the case watched to see the effect of the treatment. In cases in which the tonsil is too severely affected to be capable of recovery, as judged by the recurrence of symptoms and the failure of the above measures, then total removal is indicated.

For lymphatic gland infections, in which tuberculosis is suspected, tonsillectomy is indicated; the course of the glandular enlargement determines whether this also may require operation. In pyogenic infections of the glands the tonsil must be dealt with when the acute lymphadenitis has subsided or been operated on if suppuration has supervened. Chronic glandular enlargement of the mild or moderate degree is so frequently encountered in hypertrophied tonsils that when the tonsil recovers its normal character the glands subside also. It should be a rule that no tonsil should be removed when acutely inflamed. For more distant infections, when the tonsil is suspected of being the focus, removal is indicated when the general condition is satisfactory. The maintenance of nasal respiration, the prevention of dental caries and the proper supply of food in sufficient quality and quantity will greatly diminish the prevalence of this condition. The provision of a cleaner air supply and the prevention of infection by milk are measures needing attention.

9. **Heart Perfusion with Excretory Toxins.**—The heart is exposed to the action of certain excretory toxins of the urine and feces when the mechanism of their expulsion is defective, or it may be, to these toxins of their precursors normally on their way to elimination. This action was tested by Barry by perfusion of the toad's heart. The inferior vena cava below the liver was isolated and a small cannula inserted, communicating with three perfusion bottles; one contained freshly prepared Ringer's solution, the second a mixture of human urine and the third fecal extract made with Ringer's solution. Strengths of 10 and 15 per cent. were tried. The aorta was cut across to provide a free exit of the fluid. The toxicity of these solutions is greatly diminished by boiling and by allowing them to stand for a few days.

The first toxic effect is exhibited by the ventricle. A 10 per cent. urine solution in a few seconds brings about cessation of this chamber in a state of tonus. The auricular beat is increased in force, due in part, at any rate, to increased tension; there was no previous perfusion. Recovery with Ringer's solution is rapid, though the ventricle is somewhat irregular for a time. Fecal extract shows a similar result. There seems to be a certain degree of tolerance of, or immunity from, the toxins on their repeated use. This is exhibited by a slower onset of the effects and a diminution of the toxicity. A certain amount of antagonism seems to exist between these poisons, but the question has not been properly investigated. The a.-v. bundle seems to be the part most affected by the excretory toxins which depress its conductivity, at the same time that they affect somewhat the ventricular muscle as a whole. A marked difference in the mechanism of the two chambers is also demonstrated by their action. Irritability of ventricular muscle is completely lost only with strong solutions and is quickly recovered if the action be not too long continued. The nervous mechanism, except the accelerator fibers, seems to be unaffected by the weaker solutions.

12. **Two Extraordinary Cases of Liver Abscess.**—In the two cases cited by Pasley as worthy of record from the fact of the remarkable size of the abscesses, the patients were extremely emaciated and constitutionally extremely ill. They both recovered perfectly, thus showing that no liver abscess, however large and however ill their possessors may be, can be considered as hopeless. In one case the abdomen was found enormously distended, resembling closely the abdomen at full-term pregnancy. An enormous tumor was palpable, which gave the sensation of fluid under extreme pressure. It was slightly tender to touch. Absolute dulness extended from the pubic region up to and continuous with the hepatic area proper. The tumor extended equally into both umbilical regions laterally—in fact, it practically filled the abdominal cavity. The patient's general condition was extremely bad; he was wretchedly thin, weak and listless. There was absolutely no sign of jaundice and no bile in the urine. Blood examination showed slight leukocytosis. Examination of stools gave a negative result. A provisional diagnosis of liver abscess was made and operation decided on. The patient rapidly improved. No ameba were found in swabbings taken from the abscess cavity. The only medicine given during his illness was emetin administered daily by hypodermic injection. He received 1½ grains per day.

In the second case, on examination, an enormous tumor was found practically filling the entire abdomen. It gave the sensation, on palpation, of a sac containing fluid under very high pressure. So far as could be made out by external palpation the lower margin of the tumor was situated 1½ inches above the symphysis pubis. It extended laterally into each flank and seemed to originate from the liver. Examination of the blood showed a slight leukocytosis. Examination of the feces showed the presence of ankylostoma and ascaris ova. The patient's general condition was wretched. Pasley operated on him. His recovery was uneventful. He received one-half grain emetin hydrochlorid daily for three weeks by hypodermic injection.

Archives de Médecine des Enfants, Paris

May, XVIII, No. 5, pp. 237-292

14 Vaccine Therapy of Whooping-Cough. (La bactériologie et la thérapeutique de la coqueluche.) M. de Biehler.
15 Relations Between the Pulse and the Viscosity of the Blood in Children. (Le rapport sphygmo-viscosimetrique.) P. Gautier.
16 *Primary Tuberculosis Bacillemia in Infants. A. Jousset.

16. Summarized in Abstract 29, March 27, p. 1112.

Journal de Chirurgie, Paris

August, 1914, XIII, No. 2, pp. 145-240

17 *Treatment of Acute Diffuse Peritonitis. S. Mercadé.
18 Suppuration in Hand Spreads by Continuity or by the Lymph Vessels. (Pathogénie des phlegmons de la main.) L. Imbert.

17. **Acute Diffuse Peritonitis.**—Mercadé discusses in turn the treatment of the peritoneum after the inevitable laparotomy, the treatment of the general intoxication, treatment also of the paralysis of the bowel and stomach, and treatment of the heart weakness. To combat the general intoxication lavage of the blood is required, and this is best realized by saline solution given in the rectum by the drop method. Some prefer plain boiled water, others sea water; the latter seems to have a pronounced stimulating action, but does not promote diuresis so well as plain water. Solutions of sugar, he says, have little diuretic action, but are nourishing, stimulating and tonic. Schiassi advocates for the purpose a solution of sodium chlorid 6.5 parts; potassium chlorid, 0.3 part; fused calcium chlorid, 1 part; sodium bicarbonate, 0.5 part; glucose, 50 parts; alcohol, 15 parts, and distilled water, 1,000 parts.

Among the nine various measures that can be applied in treatment of paralysis of the bowel, he emphasizes the advantages of electric enemas. They seem especially indicated here to combat the dynamic ileus; they are harmless and if they prove effectual their action is prompt. They should be applied early, so as not to waste much time if they prove ineffectual after two or three applications. If the paralysis extends to the stomach, a retention stomach tube is advocated by Grosser and others, the tube, 4 or 8 mm. in diameter, passed through the nose. Sometimes as much as 4 or 5 liters of fluid are thus brought out of the stomach in the twenty-four hours, and fluids must be supplied in other ways to replace these amounts thus lost. In conclusion, Mercadé points out that we have thus quite a number of measures at our command for carrying a patient through acute general peritonitis, but too many must not be applied at once.

Presse Médicale, Paris

May 6, XXIII, No. 19, pp. 145-152

19 **Improvised Extension Splint for Fractures of the Humerus.** (Méthode simple de traitement des fractures de l'humérus par armes à feu.) *L. Bérard.
20 ***Wounds of Peripheral Nerves.** (Les lésions traumatiques des nerfs. Considérations opératoires.) L. Imbert.
21 Laboratory Tests for Cholera. L. Lagane.
22 Nomenclature of Bacteria. H. Coupin.
23 **Extraction of Projectile Under Control by Roentgen Rays.** Lobligeois.

May 13, No. 21, pp. 161-168

24 *White Spots in the Mouth Usually a Sign of Syphilis. (Les taches blanches de la muqueuse jugale et commissurale, dites "plaques de fumeur," fonction de syphilis.) L. Landouzy.
25 Splint in Treatment of Radial Paralysis. T. Tuffier.
26 *Peritoneal Complications of Typhoid. M. Villaret.

20. **Wounds of Peripheral Nerves.**—Imbert comments on the number of operations now required for wounds of this kind as one of the surprises of the war. He is stationed at Marseilles, and has had to devote three or four mornings a week to operations on peripheral nerves. He does not operate on the nerve until the wound has entirely healed, but then permits no further delay. The study of each case requires the cooperation of a neurologist and histologist with the surgeon. When this is the case the danger of the operation is minimal while the functional outcome is often extremely gratifying.

24. **"Smoker's Patches" in the Mouth.**—Landouzy makes a practice of examining the mouth for the whitish lines or triangular patch on the mucosa extending back from the juncture of the lips toward the first molar known as smoker's commissural patches. He has found them exclusively in syphilitics; the tobacco is merely the local irritant causing the patch to develop in the predisposed. He has found them in women, but never in any except those married to syphilitics or with a history of personal syphilis. Landouzy has been preaching for twenty years the extraordinary, the unbelievable frequency of syphilis, and has found these smoker's patches often the only clue. He examines the mouth of every adult patient, man or woman, and has found these patches on the inside of the cheeks almost constantly in syphilitic smokers, and with extreme frequency in nonsmoking syphilitics in the third phase of the disease, and also in syphilitic women. The patches are liable to retrogress under mercury and iodid, although the smokers make no change in their smoking habits. Since the introduction of the Wassermann test, he applies it regularly to all patients showing these stripes or patches in the mouth. Of 164 syphilitics, the Wassermann was strongly positive in 81 of the 131 showing the patches. In another group of 72 men and 12 women in the third stage of syphilis, 52 of the men and 4 of the women had white patches, and 39 of these men and 2 of the women responded positively to the Wassermann test. He found the commissural leukoplakia also in 15 of 17 young syphilitic soldiers recently encountered; the Wassermann was positive in 9. In short, Landouzy regards these "smoker's patches" as pathognomonic, and as instructive as the Wassermann reaction, while their presence can be determined by merely a glance. He adds that the number of women in whom he has found them now total 15.

26. **Peritoneal Complications of Typhoid.**—Villaret states that perforation has occurred in only about 1.5 per cent. of the 600 cases of typhoid among soldiers in the hospital in his charge, but that all the other possible immediate complications of typhoid were numerous and grave. A purulent otitis or parotitis seemed often to serve as a spontaneous fixation abscess, and hastened recovery. Unless perforation had actually occurred, medical measures brought the men through in 97 per cent. of the cases showing a reaction on the part of the peritoneum. When signs of such a reaction develop, absolute repose and absolutely nothing by the mouth for several days are indicated; the mouth can be frequently rinsed out, and that is all. Ice to the abdomen and over the heart was an important aid in the cure, he is convinced, as also subcutaneous injections of 0.5 or 1 c.c. of a 1:1,000 solution of epinephrin or of 300 or 500 c.c. of saline containing epinephrin. The great value of these injections whenever cardiovascular or peritoneal symptoms became apparent was demonstrated most effectually in the aggravation of conditions throughout the wards when the supply of epinephrin ran out. A tendency to collapse was combated with camphorated oil plus ether, and the septicemia with some colloidal silver preparation subcutaneously, and an artificial fixation abscess. These measures cured 60 per cent. of the men with unmistakable peritonitis, and 97 per cent. of those with a peritoneal reaction which did not progress to actual inflammation.

Berliner klinische Wochenschrift

May 17, LII, No. 20, pp. 509-536

27 ***Angina Pectoris.** H. Kohn.
28 *Heart Disturbances in War. (Herzstörungen bei Kriegsteilnehmern.) S. Korach.
29 ***Vagotony.** W. Lublinski.
30 Scientific Management in Factories, Etc., from Psychologic Standpoint. (Zur Psychologie des Wirtschaftslebens.) G. Rosenfeld.
31 *War and Venereal Diseases. (Krieg und Geschlechtskrankheiten.) K. Touton. Commenced in No. 19.
32 Spa Treatment of the Wounded. (Resultate der Badebehandlung von Kriegsverwundeten und Erkrankten.) M. Porges.
33 Bath Trains. (Transportable Badeanstalten.) R. Rauch.

27. **Angina Pectoris.**—Kohn remarks that although Askanazy's work on the efficacy of theobromin in angina pectoris was published twenty years ago, yet few even now realize that theobromin can be relied on in angina pectoris almost as confidently as digitalis can be relied on when the heart action is rapid and weak. In treatment of a pronounced attack of angina pectoris, morphin relieves the pain and relaxes the spasmodic contraction of the coronary arteries. The dose must be 0.01 gm. at least, repeated if improvement does not soon follow. If one already knows the patient, 0.015 or 0.02 might be given to start with. If the pulse is slow or growing slower, stimulants should be injected at the same time, not waiting for signs of pulmonary edema to develop, repeating the camphor or caffein at need. Alcohol can also be used, with moist heat to the heart, placing the hands or feet in hot water, and giving amyl nitrite or nitroglycerin. To ward off attacks, theobromin has fully established its efficacy, he says, in treatment of the fundamental disturbance of which the angina pectoris is the manifestation. It is actually marvelous, he declares, to witness how the theobromin arrests the tendency to repeated mild partial or abortive attacks, the status anginosus as he calls it, in analogy with the status epilepticus. Patients long tormented day after day or night after night, are freed at once from their symptoms by the theobromin. He deplores the lack of general appreciation of the efficiency of theobromin in the treatment of the fundamental disturbances which are the bases for angina pectoris. The patient must stay in bed till all tendency to heart disturbances seems to have subsided; physical exercise should be discouraged and tobacco forbidden.

28. **Soldier's Heart.**—Korach remarks that in scarcely any other affection is it so difficult to decide whether the symptoms are of organic or purely nervous origin as in the heart disturbances encountered among the men in active service. And yet dire harm is likely to be wrought if treatment is applied on the wrong basis. The majority of the men he has seen at Hamburg who were sent back from the front on account of cardiovascular disturbances were suffering merely from purely nervous or functional cardiovascular derangement. Once entirely relieved from physical and emotional stress, the disturbances slowly right themselves in those with previously sound hearts. Differentiation is possible as a rule only with prolonged tranquil study of the case. Neurasthenics with extra systoles and very high blood pressure are not capable of service at the front.

29. **Vagotony.**—Lublinski goes over much the same ground covered by the two articles in THE JOURNAL, Jan. 31 and May 16, 1914, pp. 365 and 1535, and emphasizes that it is easy to recognize the "vagotoniker" at a glance by the ebb and flow of color in the face, the sudden perspiration, the

cool, damp and bluish hands, the lusterless eyes, the narrow pupil, the drooping corners of the mouth and the frequent swallowing. The abnormally irritable vagus system can be steadied and toned up with atropin, but this must be kept up perseveringly, even when good results are apparent, with ascending and declining dosage. Arsenic is useful also as a tonic for the nerves; it is especially advantageous in the form of an arsenical mineral water.

31. **War and Venereal Diseases.**—This long address was delivered before a mixed audience, and in conclusion Touton reiterated that the compulsory introduction of individual prophylactics is, next to sanification of prostitution, by far the most important means to avoid the weakening of the army from venereal diseases. He quotes a communication from Löb at Mannheim to the effect that under the influence of salvarsan endemic syphilis had been nearly stamped out in that city, as in other smaller centers, but that since the war began there has been an appreciable increase in the number of cases of syphilis. Touton advocates classing the effects of venereal diseases acquired during the war with other war disabilities entitling to a pension. The state insurance has abandoned its former practice of discriminating against such policy-holders, and he urges that soldiers and their families suffering from the results of these diseases should not be treated as criminals or sinners. In short, he concludes, the whole subject of venereal disease during the war should be regarded and managed from the strictly hygienic-medical standpoint, leaving all ethical and esthetic considerations in the background for the time being.

Gazzetta degli Ospedali e delle Cliniche, Milan

May 13, XXVI, No. 38, pp. 593-608

34 *Aleukemic Lymphomatosis. (Le linfosi aleucemiche dal punto di vista clinico.) G. Ghedini.
35 Treatment of Tetanus in the Present War. A. Bertolini.

34. **Aleukemic Lymphosis.**—Ghedini recalls that lymphosis may develop with merely the signs and symptoms, local and general, of more or less severe anemia, with or without enlargement of the spleen, or as a hemorrhagic diathesis, an acute infection, simple lymphadenitis, sarcomatosis of the viscera or bones, or a nodular infiltrating and ulcerating dermatosis, or it may simulate syphilitic or tuberculous lesions. He reports a specimen case of each of these ten different types, and refers to typical examples of each on record. It is evident from his reasearch that in many cases of anemia, with splenomegaly, the underlying lymphomatosis has not been recognized. It may develop with the aleukemic blood picture, and the latter may vary widely from the classical type of lymphomatosis. The morbid blood picture should be studied from a broader standpoint than has hitherto been the case. It should be studied not merely as a disease of the blood-producing apparatus.

Policlinico, Rome

May, XXII, Surgical Section, No. 5, pp. 209-264

36 *Experimental Study of Fat Embolism. (Embolia grassosa.) M. Maccagno.
37 *False Appendicitis. L. Longo. Commenced in No. 4.

36. **Fat Embolism.**—Maccagno injected from 0.5 to 1.5 c.c. of olive oil into a vein in eleven rabbits and the next day killed and examined them to learn the fate of the oil. In others he repeated the injections and did not kill the animals until several days later. Study of the forty-two rabbits thus treated shows that the animals are unable to survive after intravenous injection of an amount equal to 1.06 per thousand of the weight. Also that the fat is only very slowly and defectively eliminated; he found it still present by the fortieth day. The most notable results and those most liable to prove fatal, are pulmonary edema, infarcts, embolism and heart disturbances. The experiences related teach the necessity for absolute repose in cases of fracture suggesting the possibility of fat embolism. Everything should be avoided that might in any way favor the passage of fat into the blood. When a fracture has not been reduced at the time the symptoms of fat embolism are observed, it is better to refrain from further intervention to reduce the fracture until the vessels have become thrombosed, as even a small quantity of fat in the blood vessels is likely to do much damage.

37. **Pseudoappendicitis.**—By this term Longo means any clinical picture which may be mistaken for that of appendicitis. The treatment of course differs for each, but the decision can be made, as a rule, only after the abdomen has been opened. It is especially necessary to examine the surrounding viscera when the appendicitis seems to have started in as a chronic affection and the appendix seems practically sound on direct examination. Besides this type of chronic appendicitis, there is a type in which the symptoms are many and varied, but the appendicitis never becomes fully developed; this group may be called abortive appendicitis. In other cases appendicitis is simulated by the disturbances resulting from Lane's kink; from Jackson's membranous pericolitis; mucomembranous enterocolitis with paroxysmal attacks resembling appendicitis, or the disturbances resulting from abnormal movability and dilatation of the cecum. He reports seven operative cases of this pseudoappendicitis, the operation revealing the appendix nearly or quite sound; in three cases the trouble was a simple membranous pericolitis, in the others the result of dilatation or abnormal movability of the cecum, or pericolitis with complications. The operations had been done in some of the cases on the diagnosis of ileus.

Hygiea, Stockholm

LXXVII, No. 8, pp. 401-464

38 *Present Status of Progressive Paralysis and Tabes. (Luesparalysläran i dess nuvarande läge.) V. Wigert.
39 Case of Erythema with Intense Tuberculin Skin Reaction. K. Frumerie.

38. **Present Status of Paralysis and Tabes.**—Wigert gives tables from the literature showing the proportion of cases of syphilis in which tabes or general paralysis had developed, classified according to the treatment that had been given. It is much to be regretted that the statistics cannot be compared with each other, as the reports vary so widely with respect to numerous points. It is high time, he declares, for compilation of statistics on a uniform basis in order to learn the exact conditions which favor or render impossible the development of tabes and general paralysis later. Cases should be classified in groups with like clinical course and unlike treatment, and also in groups with like treatment and unlike course of the disease. No such compilation is available at present. Certain statistics seem to indicate that treatment actually shortens the interval between infection and the appearance of paralysis or tabes, and this question deserves intensive study. Only one fact seems to stand out as established by the records to date, he remarks, that there is no evidence on hand at present that the usual mercurial treatment of fifteen and twenty years ago had any efficacy as a relative protection against paralysis and tabes. About half the article is devoted to a discussion of the existence of a syphilitic virus with a special affinity for nerve tissue.

Ugeskrift for Læger, Copenhagen

May 20, LXXVII, No. 20, pp. 781-824

40 *Physiology and Pathology of Sports and Competitive Athletics. K. Secher.
41 Medicinal Rash. (Tilfaelde af Atophanexanthem.) A. Kissmeyer.

40. **Competitive Athletics.**—Secher has not found much evidence of harm done by sports and athletics in Denmark, but he thinks that the authorities should interfere to enforce a medical examination before any competitive event of the kind. A number of athletic associations have already provided for this as a routine measure. All athletics should have some medical supervision. By this means it would be possible to keep out of strenuous competitive events those not equal to this strain, although under ordinary conditions they can keep up their athletic work without harm.

V. 191

Miscellany

Cystitis in Children

R. Fischl is professor of children's diseases at the University of Prague, and in a recent number of the *Prager medizinische Wochenschrift* he reviews his experiences with cystitis in children, especially the cases in which he has been called in consultation and the attending physician had failed to diagnose the bladder trouble. In his service at Prague, every girl child suspected of urinary trouble is catheterized, and boy babies wear a special receptacle to collect the urine. By this systematic investigation, he has found that cystitis is comparatively rare. Only twenty-six cases were found among the 15,000 children examined in the course of twelve years, and in the group were no infants less than a year old. He has also encountered fifteen cases in his private practice, a total of forty-one cases. Only five of the patients were boys. In twelve cases, the family had recognized that the bladder was the seat of the trouble, but in over 50 per cent. of the cases, this had not been suspected. One child of 8 was supposed to have typhoid, as there had been high continuous fever for a week with moderate diarrhea. There was no agglutination, and the only signs of trouble were slight enlargement of the spleen. The urine at first had contained a little albumin, and this gave the clue to the cystitis; under treatment for this the child promptly recovered. In another case of apparent typhoid, the child of 9 had been taken suddenly, after a long walk on a hot day, with high fever and prostration soon accompanied by diarrhea and cough. The aspect and symptoms suggested typhoid except that there was no agglutination; the sudden onset was also unlike typhoid. The discovery of a vulvovaginitis suggested the possibility of bladder trouble, the long walk having possibly contributed to spread the infection to the bladder. Treatment on this assumption soon cured the child.

Another young child had been treated for supposed typhoid for weeks without benefit, while the strict dieting had emaciated the little patient. The fever had been continuous at first and then irregularly remittent. Called in consultation, Fischl noticed the peculiar odor of the urine at once, and the microscope showed evidences of cystopyelitis. It had developed after an attack of diarrhea. As it had not been suspected for so many weeks, it had run into a chronic phase quite refractory to persevering local measures plus hexamethylenamin internally. These brought the temperature down to normal and the general condition improved, but the urine kept turbid and of a putrid odor while the child had the tint of anemia. The urine finally became normal after one injection of an autogenous colon bacillus vaccine, and there has been no relapse to date.

Left untreated too long, cystitis may drag along for years, or lie latent until roused by pregnancy or other period of stress. Fischl warns that urates in the urine are liable to simulate the cloudiness of cystitic urine. Powder used to dust the genitals of infants may also get into the urine and prove misleading. In one case a bright 5-year-old boy became incontinent and wet his clothes both day and night. The enuresis was not affected by the various methods of treatment applied in turn. No one thought of examining the urine under the microscope. When finally this was done, findings suggestive of cystitis pointed the way to a prompt and speedy cure of both the cystitis and the enuresis.

Fischl gives hexamethylenamin internally in doses of at least 0.5 gm. per day for young infants, and keeps it up until the urine is normal; a week usually answers the purpose. If the desired result is not attained in one or two weeks, it is useless to keep it up longer, and local measures should be applied. He begins with a weak solution of potassium permanganate. If this proves ineffectual, he changes to a 1:5,000 silver nitrate solution. The fresh urine with cystitis is so often neutral that there is no reason for treating with alkalies, as Thomson advocates.

Effect of Pasteurization on the Cream Line

Complaints were made to the New York City Board of Health, following the enforcement of certain regulations concerning the temperature at which milk should be pasteurized by milk distributors, that the cream did not properly rise or separate in the pasteurized product and show a distinct line between the cream and the milk. In order to determine the effect of pasteurization at different temperatures and for different periods, a series of tests was instituted under the supervision of the New York board at the different pasteurizing plants, using different methods and different apparatus, and the results are set forth in Reprint 27 of the board by Charles H. Kilbourne, supervising inspector of foods. Details of the tests, the temperatures, apparatus, time and other conditions are given in detail, and some obscure and as yet not entirely explainable phenomena are described in respect to the cream line in the pasteurizing process. The results, however, are summarized by Kilbourne as follows: All tests indicated that when the milk is cleaned by a centrifugal clarifier, the volume of cream in the milk is reduced from 2 to 3 per cent. The volume of cream in bottled milk is influenced by (1) the temperature to which the milk is heated; (2) the length of time the milk is held at the high temperature; (3) the temperature of the heating medium with which the milk comes in contact during the heating process; (4) the clarification of the milk; (5) the type of apparatus used in treating the milk, and (6) the amount of agitation to which the milk is subjected, especially while hot. The last factor is said to have considerable influence, and in one instance in which the cream line was considerably reduced in the process, the experiment was made of reducing the speed of the agitator which kept the hot milk in motion, when it was found that the cream line remained normal. It was also found that in the processes in which there was most agitation or pumping of the hot milk, most difficulty with the cream line was experienced. Other factors which have an influence are said to be the age of the milk before pasteurization, the grade of cows producing the milk, and the freezing or nonfreezing of the milk before being treated. It is stated that milk may be heated to 145 F. for thirty minutes without producing any injurious effect on the cream line.

Sanitary Works in Argentina

The manner in which the problems of water supply and sanitation have been met in Argentina, particularly in Buenos Aires, is described in *Commerce Reports* for April 14. Buenos Aires is said to present points of resemblance to Chicago. Both are decidedly modern cities which received their greatest accessions of population in recent years, and each is situated on a large body of fresh water. In respect to water supply and drainage, Buenos Aires has the advantage over the northern city in that the waters of the Rio de la Plata move toward the sea, and that the winters in Buenos Aires are never so cold that the danger of frozen water pipes and mains needs to be reckoned with.

The scientific study of water supply and drainage for Buenos Aires dates from 1873, when the population was something over 200,000 (it is now over 1,500,000). The sanitary work now partly completed and partly still under construction is supposed to insure a proper drainage and water supply to meet the city's needs up to 1952, at which time it is prophesied that the population will be near to 6,000,000. The consumption of water allowed per inhabitant per day is 300 liters (nearly 80 gallons), an amount considerably above the rate of the actual present consumption.

While some of the water used in Buenos Aires is as yet obtained from driven wells, these are to be done away with and the entire city supplied with water from the Rio de la Plata. By means of sedimentation, coagulation and filtration, it has been found possible to purify the river water absolutely and render it suitable for all purposes.

Since Buenos Aires is situated on the edge of the river, with no natural elevation from which distribution of water to the city might be effected, it has been necessary to con-

struct elevated distributing stations. Four new centers of distribution are planned. From a water tower in the river, an intake tunnel will conduct the water to the pumping stations on shore, whence it will pass, first to the decanting reservoirs, then to the filter beds, and thence to the gravity tanks and reserve tanks, from which a network of water mains will lead it to all parts of the city. The capacity of the tanks, compared with the amount of water consumed in one day, is much less than in New York or London, owing to the high price of land in Buenos Aires and the lack of natural elevations, which have rendered the cost of such large tanks prohibitive. The use of the coagulation method has counterbalanced this difficulty, however, and provision has been made for a proper reserve of filtered water, so that the city will not suffer for water in case the filter beds and coagulation tanks should be temporarily out of service.

The sewage of Buenos Aires is discharged into the Rio de la Plata at a point far enough below the intake to preclude the possibility of contamination of the water supply.

The water supply and drainage of the federal district (Buenos Aires) is under the control of the National Department of Sanitation (Obras Sanitarias de la Nación) which may also, at the request of the provincial cities, undertake similar work on their behalf. This department is autonomous, being responsible only to the president of the republic, who, with the approval of the senate, appoints the members of its directorate, consisting of a president, a vice president and five other members who serve for a term of four years. This directorate is given liberal powers, both administrative and financial. It has the authority to nominate and discharge all subordinates and to raise money, when necessary, for constructive work, by means of loans secured by the property of the department. These loans are finally to be discharged from the income of the department, which is drawn in part from the national lottery and in part from monthly taxes on all houses which receive water and sewage service. These taxes consist of 3 per cent. on the rental value for the water and 2 per cent. for the sewage. This income is sufficient to meet amortization and interest payments and finally to wipe out the entire debt contracted for the work under process of construction.

The Death Rate in Berlin Last Year

The mortality in Berlin was a little higher in 1914 than in 1913; per thousand inhabitants, 14.54 per cent. died in 1914 to 13.48 in 1913. In this calculation, however, the great changes in the populace after the outbreak of the war must be borne in mind. The increase in the mortality for 1914 included 996 males and 592 females, but classifying the deaths by ages shows that the increase was mostly among infants or the aged. This grouping is evident also in the classification according to the causes of death. The increase, namely, is in catarrhal bowel troubles and diarrhea, measles and pertussis, while the figures for scarlet fever and diphtheria are about the same. There was a moderate increase in the mortality from pulmonary tuberculosis, which does not affect to such an extent the very young or the very old. The pneumonia mortality showed a considerable increase, mostly among the elderly. The number of deaths from senile debility also materially increased, as also the number of deaths from cancer.

The influence of the seasons is instructive. In 1914 the mortality in the winter and spring was above the average; from June to November it was moderate. It used to be the rule that the summer months had the highest mortality on account of the high death rate among infants in the heated term. But now the mortality among infants does not form such a large proportion of the total—partly owing to the influence of the declining birth rate—and hence it is not so important a factor in the general mortality.

During 1914, notwithstanding the unusual decline in the birth rate, the infant mortality was notably higher. There were 5,846 deaths among infants, 37,493 living children born in 1914 to 5,607 deaths, and 40,481 living children born in 1913. But even taking this into account, July, August and September, although they showed the highest death rate among infants, did not have so high a total mortality as the months of the winter and spring. The total rate in July was only 13.66 per thousand, the lowest month in the year. More than the heat of the summer, the inclement weather of the winter and early spring claimed more victims in 1914.

Opportunities for Graduate Work

An interesting sketch of medical impressions on a trip around the world was published recently by Dr. J. Eduque in the *Revista Filipina de Medicina y Cirujia* on his return from a tour for inspection of the clinics and hospitals of Europe and America, made under the auspices of the University of the Philippines. In conclusion Eduque summarizes his impressions in the advice to go to Austria to study pathology, diagnosis and specialties, to England for anatomy and physiology, to France for urology and to the United States for surgery. He urges the necessity for studying the language before leaving home, and strongly advocates the joining of the local medical association open to foreigners, as this provides numerous advantages in the way of opportunities and information. His sketch is republished in the *Prensa Medica* of Havana. He relates that the queen of Bulgaria had planned to come to America and bring several young women with her to study the system of trained nurses here as she had been much impressed with their work in the Red Cross units during the last Balkan War.

The Hospital for Industrial Diseases in Italy

The hospital and clinic for the exclusive study and treatment of the industrial diseases, at Milan, has just completed its fourth year of work. It is the first and to date the only institution of the kind for occupational diseases, and the postgraduate courses have attracted medical men from other countries. Prof. L. Devoto is director and is editor of the little monthly, *Lavoro*, published by the clinic, although antedating it by four years. The expense of running the hospital and clinic is $17,000 a year. The number of days of hospital treatment has averaged 18,720 per year. In April, as an average month, 228 persons were given treatment in the dispensary, including 98 women; and 16 men and 14 women were admitted to the hospital. Wassermann tests were applied in 43 cases, with positive findings in 15. Roentgen-ray examinations were made in 63 cases—all without charge. The institution has prepared sets of lantern slides which they sell for $4 a dozen. They portray various features of industrial diseases and means to recognize and avoid them, tables of statistics, etc., from various countries, and other data bearing on occupational disorders.

Biologic Diagnosis by Means of Intermediate Host

E. Brumpt is professor of parasitology in the medical school at São Paulo, Brazil, and he has recently worked out a method for diagnosis which he calls xenodiagnosis, from the Greek ξένος, host, as he utilizes the intermediate host of the parasite or some vicarious host for the cultivation of the parasite in question. He has applied the method to date mostly in cultivation of Chagas' trypanosome. A Brazilian leech was found convenient for the purpose; the trypanosomes taken up as it sucks blood multiply amazingly in the stomach. But for Chagas' disease, the true intermediary host is preferable. The bite of the bug in question, which is the host of Chagas' trypanosomes, is not painful, and consequently children do not object to let it be placed on them to bite and draw blood. It takes up from ten to five hundred times as much blood as could be examined with the microscope, and the bug, a large black insect with red markings, can then be set aside in a labeled tube and examined at leisure as the trypanosomes proliferate in its interior. Brumpt's communication is the leading article in the *Annaes Paulistas de Medicina*, 1914, iii, 97.

JOURNALS INDEXED IN THE CURRENT MEDICAL LITERATURE DEPARTMENT JANUARY-JUNE, 1915

The following journals have been indexed in the Current Literature Department of THE JOURNAL during the past six months. Any of the foreign journals, except those starred, will be lent by THE JOURNAL to subscribers in the United States and to Fellows of the American Medical Association for a period not exceeding three days. Only one journal may be borrowed at a time. Requests for periodicals should be addressed to the Library of the American Medical Association and six cents in stamps should be enclosed. This covers the average expense of mailing a journal. Domestic journals can be obtained by sending the approximate amount direct to the respective publishers. Thus most of the journals indexed are accessible to the general practitioner, no matter where he may be located.

Albany Medical Annals. M. $2. 170 Washington Ave., Albany, N. Y.
American Journal of Anatomy. Bi-m. $5. 36th St. and Woodland Ave., Philadelphia.
American Journal of Diseases of Children. M. $3. American Medical Association, 535 N. Dearborn St., Chicago.
American Journal of Insanity. Q. $5. Johns Hopkins Press, Baltimore.
American Journal of the Medical Sciences. M. $5. Lea & Febiger, 706 Sansom St., Philadelphia.
American Journal of Obstetrics and Diseases of Women and Children. M. $5. Wood & Co., 51 Fifth Ave., New York.
American Journal of Orthopedic Surgery. Q. $3. P. Blakiston's Son & Co., 1012 Walnut St., Philadelphia.
American Journal of Physiology. M. $5. Johns Hopkins Medical School, Baltimore, Md.
American Journal of Public Health. M. $3. 755 Boylston St., Boston.
American Journal of Roentgenology. M. $5. 32 Adams Ave., West, Detroit.
American Journal of Tropical Diseases and Preventive Medicine. M. $2. P. O. Drawer 602, New Orleans, La.
Annales de gynécologie et d'obstétrique. M. 22 francs. Paris.
Annales de médicine. M. 23 francs. Paris.
Annals of Ophthalmology. Q. $4. Mermod-Jaccard Bldg., St. Louis.
Annals of Otology, Rhinology and Laryngology. Q. $4. Mermod-Jaccard Bldg., St. Louis.
Annals of Surgery. M. $5. J. B. Lippincott Co., E. Washington Square, Philadelphia.
Annals of Tropical Medicine and Parasitology. Q. $5. Liverpool.
Archiv für Gynäkologie. Irregular. Price varies. Berlin.
*Archiv für Kinderheilkunde. Irregular. 15 marks. Stuttgart.
Archiv für klinische Chirurgie. Irregular. Price varies. Berlin.
Archiv für Verdauungs-Krankheiten. Bi-m. 24 marks. Berlin.
Archives of Diagnosis. Q. $1. 250 W. 73d St., New York.
Archives of Internal Medicine. M. $4. American Medical Association, 535 N. Dearborn St., Chicago.
*Archives des maladies de l'appareil digestif et de la nutrition. M. 14 francs. Paris.
Archives des maladies du cœur, des vaisseaux et du sang. M. 17 francs. Paris.
*Archives de médecine des enfants. M. 18 francs. Paris.
Archives mensuelles d'obstétrique et de gynécologie. M. 25 francs. Paris.
Archives of Ophthalmology. Bi-m. $5. G. P. Putnam's Sons, 27 W. 23d St., New York.
Archives of Pediatrics. M. $3. E. B. Treat & Co., 241 W. 23d St., New York.
Archives of Roentgen Ray. M. $4.50. London.
Arizona Medical Journal. M. $2. Phoenix, Ariz.
*Beiträge zur Geburtshilfe und Gynaekologie. Irregular. Price varies. Leipsic.
Beiträge zur Klinik der Tuberkulose. Irregular. 16 marks. Würzburg.
*Beiträge zur klinischen Chirurgie. M. Price varies. Tübingen.
Berliner klinische Wochenschrift. W. 24 marks. Berlin.
Boston Medical and Surgical Journal. W. $5. 126 Massachusetts Ave., Boston.
Brain: A Journal of Neurology. Irregular. $4. London.
Brazil Medico. W. 20 milreis. Rio de Janeiro.
Bristol Medico-Chirurgical Journal. Q. $3.
British Journal of Children's Diseases. M. $5. London.
British Journal of Surgery. Q. $6.50. William Wood & Company, 51 Fifth Ave., New York.
British Journal of Tuberculosis. Q. $1.25. London.
British Medical Journal. W. $8.50. London.
Bulletin de l'Académie de médecine. W. 20 francs. Paris.
Bulletin of the Johns Hopkins Hospital. M. $2. Baltimore.
Bulletin of the Lying-in Hospital of the City of New York. Irregular. $1. 23 E. 93d St., New York.
Bulletin of the Medical and Chirurgical Faculty of Maryland. M. $0.25. 1211 Cathedral St., Baltimore.
California State Journal of Medicine. M. $1. Butler Bldg., San Francisco.
Canadian Medical Association Journal. M. $5. 145 Wellington St., W., Toronto.
Centralblatt für die Grenzgebiete der Medizin und Chirurgie. Irregular. 22 marks. Jena.
Cleveland Medical Journal. M. $2. 2318 Prospect Ave., Cleveland.
Colorado Medicine. M. $2. Metropolitan Bldg., Denver.
Correspondenz-Blatt für schweizer Aerzte. W. 22 francs. Basel.
Deutsche medizinische Wochenschrift. W. 32 marks. Berlin.
*Deutsche Zeitschrift für Chirurgie. M. Price varies. Leipsic.
*Deutsches Archiv für klinische Medizin. Irregular. Price varies. Leipsic.
Dublin Journal of Medical Science. M. $5.
Edinburgh Medical Journal. M. $6.
Gazzetta degli ospedali e delle cliniche. Semi-w. 25 francs. Milan.
Glasgow Medical Journal. M. $5.
Grèce médicale. Semi-m. 12 francs. Athens.
Hospitalstidende. W. 27.5 kronen. Copenhagen.
Hygiea. M. $5. Stockholm.
Illinois Medical Journal. M. $2. 3338 Ogden Ave., Chicago.
Indian Journal of Medical Research. Q. $2.50. Calcutta.
Indian Medical Gazette. Bi-m. $5. Calcutta.
Jahrbuch für Kinderheilkunde. M. 36 marks. Berlin.
Journal d'urologie médicale et chirurgicale. M. 40 francs. Paris.
Journal of Abnormal Psychology. Bi-m. $4. R. G. Badger, 194 Boylston St., Boston.
Journal of the American Medical Association. W. $5. 535 N. Dearborn St., Chicago.
Journal of the Arkansas Medical Society. M. $1. 810 State Bank Bldg., Little Rock, Ark.
Journal of Biological Chemistry. M. $3. 2419 York Road, Baltimore.
Journal of Cutaneous Diseases. M. $5. Rebman Company, 141 W. 36th St., New York.
Journal of Experimental Medicine. M. $5. Rockefeller Institute for Medical Research, 66th St. and Avenue A, New York.
Journal of the Florida Medical Association. M. $1.00. 334 St. James Bldg., Jacksonville, Fla.
Journal of the Indiana State Medical Association. M. $1. 219 W. Wayne St., Fort Wayne, Ind.
Journal of Infectious Diseases. Q. $5. 57th St. and Greenwood Ave., Chicago.
Journal of Iowa State Medical Society. M. $2. Washington, Ia.
Journal of Kansas Medical Society. M. $2. 501 Husted Bldg., Kansas City, Kan.
Journal of Laryngology, Rhinology and Otology. M. $5. London.
Journal of Maine Medical Association. M. $2. Portland, Maine.
Journal of Medical Association of Georgia. M. $1. Harison Bldg., Augusta, Ga.
Journal of Medical Research. M. $4. 240 Longwood Ave., Boston.
Journal of Medical Society of New Jersey. M. $2. 252 Main St., Orange, N. J.
Journal of Michigan State Medical Society. M. $2. 91 Monroe Ave., Grand Rapids, Mich.
Journal of Missouri State Medical Association. M. $2. 3525 Pine St., St. Louis.
Journal of Nervous and Mental Diseases. M. $5. 64 W. 56th St., New York.
Journal of Obstetrics and Gynecology of the British Empire. M. $6.25. London.
Journal of Oklahoma State Medical Association. M. $2. Muskogee.
Journal of Outdoor Life. M. $1. 289 Fourth Ave., New York.
Journal of Parasitology. Q. $2. Urbana, Ill.
Journal of Pathology and Bacteriology. Q. $5.50. Cambridge, Eng.
Journal of Pharmacology and Experimental Therapeutics. Bi-m. $5. 2419 York Road, Baltimore.
Journal of the Royal Naval Medical Service. Q. $1. London.

W.—Weekly; M.—Monthly; Semi-m.—Semi-monthly; Bi-m.—Bi-monthly; Q.—Quarterly. *Cannot be loaned.

Journal of Sociologic Medicine. Bi-m. $3. 52 N. Fourth St., Easton, Pa.
Journal of South Carolina Medical Association. M. $2. Anderson, S. C.
Journal of Tennessee State Medical Association. M. $2. Jackson Bldg., Nashville, Tenn.
Journal of Tropical Medicine and Hygiene. Semi-m. $5. London.
Journal-Lancet. Semi-m. $2. 839 Lumber Exchange, Minneapolis.
Kentucky Medical Journal. M. $2. Atherton Bldg., Bowling Green, Ky.
Lancet. W. $8. London.
Lancet-Clinic. W. $3. Main near Seventh St., Cincinnati.
Laryngoscope. M. $5. 3858 Westminster Place, St. Louis.
Lyon chirurgical. M. 25 francs.
Lyon médical. W. 20 francs.
Medical Record. W. $5. W. Wood & Co., 51 Fifth Ave., New York.
Medizinische Klinik. W. 32 marks. Berlin.
Military Surgeon. M. $3.50. 535 N. Dearborn St., Chicago.
Mitteilungen aus den Grenzgebieten der Medizin und Chirurgie. Irregular. 25 marks. Jena.
Mitteilungen aus der medizinischen Fakultät der Kaiserlichen Universität zu Tokyo. Irreg. Price varies. Tokio.
Modern Hospital. M. $3. Metropolitan Bldg., St. Louis.
Monatsschrift für Geburtshülfe und Gynäkologie. M. 42 marks. Berlin.
Monatsschrift für Kinderheilkunde. M. 20 marks. Leipsic.
Münchener medizinische Wochenschrift. W. 32 marks. Munich.
Nederlandsch Tijdschrift voor Geneeskunde. W. 10.50 florins. Amsterdam.
New Mexico Medical Journal. M. $2. P. O. 23, Las Cruces, N. M.
New Orleans Medical and Surgical Journal. M. $2. 1551 Canal St., New Orleans.
New York Medical Journal. W. $5. A. R. Elliott Publishing Co., 66 W. Broadway, New York.
New York State Journal of Medicine. M. $1. 17 W. 43d St., New York.
*Nordiskt Mediciniskt Arkiv. Irregular. 30 marks. Stockholm.
Norsk Magazin for Lægevidenskaben. M. $5. Christiania.
Northwest Medicine. M. $2. Cobb Bldg., Seattle, Wash.
Ohio State Medical Journal. M. $2. 207 E. State St., Columbus, Ohio.
Old Dominion Journal of Medicine and Surgery. M. $2. 116 E. Franklin St., Richmond, Va.
Ophthalmic Record. M. $4. 7 W. Madison St., Chicago.
Ophthalmology. Q. $5. 711 Cobb Bldg., Seattle, Wash.
Pediatria. M. 12.50 lire. Naples.
Pennsylvania Medical Journal. M. $2. Athens, Pa.
Philippine Journal of Science. Irregular. $7. Manila, P. I.
Policlinico. W. 32 lire. Rome.
Practitioner. M. $6.50. London.
Presse médicale. Semi-w. 15 francs. Paris.
Public Health Journal. M. $2. York Publishing Co., Lumsden Bldg., Toronto.
Quarterly Journal of Medicine. $6.50. London.
Revue médicale de la Suisse romande. M. 14 francs. Geneva.
Revue mensuelle de gynécologie, d'obstétrique et de pédiatrie. M. 12 francs. Paris.
Riforma medica. W. 35.50 lire. Naples.
Sei-I-Kwai. M. $2. Tokio.
Semana médica. W. $5. Buenos Aires.
Southern Medical Journal. M. $2. 905 Van Antwerp Bldg., Mobile, Ala.
Southwest Journal of Medicine and Surgery. M. $1. El Reno, Okla.
Surgery, Gynecology and Obstetrics. M. $5. Surgical Publishing Co., 31 N. State St., Chicago.
Svenska Läkaresällskapets Handlingar. Irregular. 7.50 kronen. Stockholm.
Texas State Journal of Medicine. M. $1.50. Western National Bank Bldg., Fort Worth, Tex.
Therapeutische Monatshefte. M. 12 marks. Berlin.
Therapie der Gegenwart. M. 14 marks. Berlin.
Tumori. Bi-m. 25 lire. Rome.
Ugeskrift for Læger. W. 20 kr. Copenhagen.
United States Naval Medical Bulletin. Q. $1. Washington, D. C.
Upsala Läkareförenings Förhandlingar. Irregular, 10 kr.
Washington Medical Annals. Bi-m. $1. 2114 18th St., N. W., Washington, D. C.
West Virginia Medical Journal. M. $1. Wheeling, W. Va.
Wiener klinische Wochenschrift. W. 24 marks. Vienna.
Wisconsin Medical Journal. M. $2. Goldsmith Bldg., Milwaukee.
Zeitschrift für Geburtshülfe und Gynäkologie. Irregular. Price varies. Stuttgart.
*Zeitschrift für Kinderheilkunde. Irregular. 18 marks. Berlin.
*Zeitschrift für klinische Medizin. Irregular. 16 marks. Berlin.
*Zeitschrift für Urologie. M. 30 marks. Berlin.
Zentralblatt für Chirurgie. W. 30 marks. Leipsic.
Zentralblatt für Gynäkologie. W. 30 marks. Leipsic.
Zentralblatt für innere Medizin. W. 30 marks. Leipsic.

W.—Weekly; M.—Monthly; Semi-m.—Semi-monthly; Bi-m.—Bi-monthly; Q.—Quarterly. *Cannot be loaned.

V. 191

EXPLANATION OF THE USE OF THE INDEX

This is an index not only to the reading matter in THE JOURNAL, but also to original articles in the principal medical periodicals of this and other countries. The reading matter appearing in THE JOURNAL is distinguished by the use of **black-faced numerals.**

The letters used to explain in which department the matter indexed appears are as follows: "E," Editorial; "C," Correspondence; "T," Therapeutics; "Ml," Medicolegal; "P," Propaganda for Reform; "ME," Medical Economics; "ab," abstract; the star (*) indicates an "Original Article" in THE JOURNAL.

This is a subject index and one should, therefore, look for the chief word, with the following exceptions: "Book Notices," "Deaths" and "Society Proceedings" are indexed under these titles at the end of the letters "B," "D" and "S." Matter pertaining to the Association is indexed under "American Medical Association."

All matter is indexed under the most important word of the heading used in THE JOURNAL, and also under the subject heading. For instance, abscess of the brain will be found under "abscess," as well as under "brain." Such titles as "ocular manifestations, etc." have been indexed under "Eye." Cross references have been liberally used.

The figures in parentheses refer to the paragraph, the number following to the page in THE JOURNAL.

ABDERHALDEN serodiagnosis, present status of, ***1898**

This reference is to an original article in THE JOURNAL, as shown both by the star and by the black-faced numerals indicating the page.

ACONITE in pneumonia, **1782**

This reference, as indicated by the black-faced figures, is also in THE JOURNAL, and on turning to page 420 we find an answer to a question in the Department of Queries and Minor Notes.

ACID, uric, in blood, colorimetric determination of, (84) **1877**

In this reference, the (84) indicates that the article is in the Current Literature Department and the fact that the page number is in black-faced type shows that the article is abstracted and discussed in THE JOURNAL. Turning to page 1877 we find (84) refers to an article by S. R. Benedict in the *Journal of Biological Chemistry,* April.

ABSCESS, brain, after blocking trigeminal nerve for removal of teeth, (97) **1690**

The fact that in this last reference the page is given in ordinary type indicates that only the title of the article is given. Turning to page 1690 we find that the numeral (97) refers to a paper on that subject by F. Bannes which appeared in *Medizinische Klinik,* April 4.

In the AUTHOR'S INDEX are the names of the authors of articles which have appeared in THE JOURNAL of the American Medical Association and of articles that have been listed from week to week in the Department of Current Medical Literature as having appeared in other journals. The black-faced numerals indicate that the article is in THE JOURNAL, either in full or in abstract. The star (*) preceding the page number, indicates an original article.

SUBJECT INDEX

A

ABDERHALDEN, defensive ferments of, (54) **1942**
serodiagnosis and defective mental and physical states, **2014**—ab
serodiagnosis, basis of, (16) **780**
serodiagnosis, cancer, (165) **182**
serodiagnosis, digestion of liver tissue in, applied to alcoholics, (94) **948**
serodiagnosis, mechanism of, (62, 63) **1108**
serodiagnosis, negative, in injury of head with oncoming epilepsy, operation, drainage of cyst, (90) **1109**
serodiagnosis, nervous and mental diseases, (8) 937, (131) **1039**
serodiagnosis of diseases of liver, **81**—ab
serodiagnosis, pregnancy, cancer and nervous diseases, experience with, (41) **1451**
serodiagnosis, pregnancy, practical application, (153) **544**
serodiagnosis, present status of, ***1898**
serodiagnosis, production of specific bacterial ferments as detected by, (66) **1358**
serodiagnosis, rationale of Wassermann reaction and, (20) **699**
serodiagnosis, results of clinical investigations based on, (36) **621**
serodiagnosis, specificity of, ***735**
serodiagnosis, study of protective ferments of blood by, after transplantation of organs, (30) **1030**
serodiagnosis with normal and pathologic human serums, (77) **1360,** (11) **2017**
serodiagnosis, year's work with, (13) **1029**
ABDOMEN, acute, (57) **940**
acute diseases of thorax and, differential diagnosis between, (27) **1687**
acute, in children, (31) **1527**
acute pathologic perforations within, differential diagnosis between, (105) **1032**
acute surgical, (101) **1685**
acute surgical, in children, (87) **1615**
acute, tabes dorsalis simulating, (90) **1685**
adhesions, **2162**—ab
adhesions, electromagnet in prophylaxis of, (32) **279**
ABDOMEN adhesions, injection of liquid petrolatum to prevent, (119) **705**
adhesions prevented with sodium citrate in hypertonic salt solution, (56) **371**
anesthetization of, (43) **1800**
angina of, (82) **188**
blue spot on, (138) **952**
care of, in infants and children, (101) **275**
chronic, 19 cases, (149) **180**
diagnosis with reference to pain, (137) **86**
disease and eye symptoms, (80) **1622**
disease, superior mesenteric vessels in, **1789**—ab
disturbances of, appendicitis as factor in, (147) **697,** (134) **1194**
drainage, (8) **176**
foreign body in, Crossen's metnod of precluding possibility of leaving, (117) **778**
gunshot wounds of, (122) **180,** (85) **625**
gunshot wounds of, compressive dressings in, (134) **1692**
gunshot wounds of, penetrating and perforating, 27 cases, (127) **1275**
hemorrhages, leukocytosis deceptive sign in, ***1294**
incision, closing, improved method, (4) **1875,** (120) **1879**
muscles, insufficiency of, in tuberculous, gastro-intestinal disturbances from, (60) **946**
muscles, segmental innervation of, (138) **627**
pain in, (76) **624,** (70) **2099**
pain in upper, due to chronic disorders, (133) **1194**
pressure on, in artificial respiration, (78) **947**
Ptosis of: See Splanchnoptosis
septic conditions of, management of, (84) **2019**
suction and circulation, (80) **1115**
Surgery: See also Laparotomies
surgery, (140) **544,** (144) **1362**
surgery, mortality of, analysis of, (44) **857**
trauma, accidental, immediate section in, (64) **1942**
tumor, inflammation, (106) **1281**
tumor, passive congestion of liver simulating, **465**—ab, (110) **1109**
wall, closure of extensive defect in, (35) **700**
ABDOMEN, wounds of, (45) **474,** (79) 703, (60) **863,** (98) 948, (111) 1691, (121) 2028
wounds of thorax and, penetrating, (132) **860**
wounds, penetrating, treatment of, **1862**
wounds, prognosis and treatment of, in war, (67) **1802**
ABDUCENS, unilateral luetic palsy of, neosalvarsan and mercury in, (144) 620
ABELIN reaction in syphilis, ***199**
ABICAN, 607—P
ABORTIFACIENT, miscarriage by woman taking, independently, action for malpractice not maintainable against physician for, **1186**—Ml
ABORTION and professional secrecy, **1088**
cause, prophylaxis and treatment, (46) **178**
criminal, gas phlegmon after, (80) **91**
medicolegal aspects of, (92) **696**
placental extracts in production of labor and, (131) **1110**
present status of, (84) 703, (82) **804**
retention of placenta after, (49) **2103**
serologic and bacteriologic findings in, (98) **2020**
therapeutic, (131) **942**
treatment of, on basis of pathology, (17) **1029**
ABSCESS: See also Cellulitis; Phlegmon
ABSCESS, apical, streptococci from pyorrhea alveolaris and, ***1055**
appendix, acute, in 13 months' infant, (26) **1617**
axillae, treatment of furuncles and, (47) **1365**
brain, **463**—ab, (65) 695, (41) 1273
brain, after blocking trigeminal nerve for removal of teeth, (97) **1690**
brain, drain for, (114) **950**
brain, frontal lobe, secondary to purulent frontal sinusitis, (108) **1616**
brain, in paratyphoid, (24) **1880**
brain, ocular symptoms of sinus thrombosis of otitic origin and, (21) **857**
brain, of otitic origin, (25) **540,** (106) **1943**
ABSCESS, cerebellum, diagnosis and treatment of, operation for, (29) **943**
cerebellum, differential diagnosis of cerebellar syphilis and, (77) **469**
cerebellum, in child, not from ear trouble, (2) **1686**
cerebrum, roentgenoscopy of, (37) **621**
ear, (41) **1273**
ear, extradural, 2 cases, (15) **545**
fixation, treatment of various acute diseases, (122) **1282**
ischiorectal, and fistula in ano, treatment of, (92) **2020**
liver, (12) **2170**
liver, acute appendicitis complicated by, (54) **1036**
liver, and valvular heart disease secondary to enteritis, (106) **1460**
liver, due to streptothrix, (11) **2168**
liver, in infant, 5 weeks old, (3) **1685**
lung, treatment of, (153) **627**
mastoid, indications for operation, (99) **1878**
paranephritic, 35 cases, (58) **281**
parapharyngeal, **2093**—ab
pelvic, and evacuation of gas in pneumoperitoneum following resection of carcinomatous rectum, (21) **545**
pelvic, following Fowler position in appendicitis, (61) **857**
perinephritic, (57) **1619**
peritonsillar, (101) **696**
petrosal, (86) **1943**
pharynx, otogenic, (31) **943**
pilonidal sinus, (102) **85**
prostate, opened through cysto-urethroscope with high frequency spark, ***431**
retroperitoneal, perforating into bladder, (108) **1281**
retropharyngeal, 2 cases, (128) **85**
retropharyngeal, with rupture, asphyxiation and death following acute tonsillitis, (62) **541**
spring spreaders in treatment of, (63) **946**
subpectoral, 2 cases, (110) **1361**
subphrenic, (38) **541**
tonsillectomy under local anesthesia followed by, (24) **857**
tooth root, and ethmoiditis with homonymous crescentic scotomas, (99) **1529**
typhoid, 7 cases, (63) **2024**

ABSINTHE, problem of, 1258
prohibition of, in colonies, 68
prohibition of, not enforced in France, 258
ACCIDENTS and alcohol, (32) 1941
coal mine, 1831—ab, 2144—E
hernia caused by strain is, 1935—MI
in coke industry, 336—ab
industrial, 1752—ab
industrial, from medical standpoint, (34) 2102
industrial, in clinic and hospital, care of, (115) 1796
industrial, medicolegal aspects of, lectures on, 2080
industrial, physical and psychic conditions of, 515—E
industrial sickness and, prevention of, by systematic inspection of plant and employees, (57) 1685
neurotic disturbances after, and workman's compensation, (96) 469
overstretching of elbow and wrist in, (47) 700
physician's task after, (87) 948
prevention of, and eyesight, (141, 143) 1944
proof of mental feelings just prior to, 690—MI
quarry, in United States in 1913, 171—ab
railway, in 1914, 670—E
ACEPHALUS, sympodia and craniopagus, rare fetal teratisms, (136) 1110
ACETANILID, antipyrin and phenacetin group, *1740
ACETONE, Frommer's test for, improved technic for, (62) 2025
ACETONEMIA, (103) 1360
ACETONURIA, periodical vomiting with, pathology of, (61) 1948
ACHONDROPLASIA, (112) 626, (126) 1275
due to excessive functioning of sexual glands, (101) 1117
fetalis, (10) 1876
hereditary deforming, *1642
hereditary influences in, cesarean section in, (89) 1796
ACHYLIA, functional, of stomach and pancreas, (120) 705
ACID, acetyl-salicylic, *1072
amino, a-nitrogen, colorimetric method for estimation of, (36) 1358
amino, content of blood and cerebrospinal fluid in syphilitic and non-syphilitic individuals, *126
amino, content of blood and muscle, influence of meat ingestion on, (80) 1876
antagonism between salts and, (52) 467
benzoic, and benzoates, *1072
benzoic, in urine, estimation of, (76) 941
beta-oxybutyric, determinations in recurrent vomiting and urinary acidity, (47) 630
boric, and borax, *1242
boric, in diseases of skin, *883
boric, toxic action of, in vagina and rectum injections, (102) 1367
Carbolic: See Phenol
chondroitin sulphuric, (50) 1358
citric, color test for, (145) 1694
crises, (73) 2019
dressing to check pyocyaneus suppuration, (31) 1533
effect of, on permeability, (48) 467
excretion in nephritis, factors in, (12) 2096
glucuronic, normal and pathologic elimination of, (35) 1881
hippuric, synthesis of, in experimental tartrate nephritis in rabbit, (75) 695
hydrochloric, free, in stomach contents in infants, (97) 1367
Intoxication: See Acidosis
lactic, in milk, germicidal effect of, (45) 2096
nitric, test for albumin, (145) 627
nucleic, compounds in Nissl bodies of ganglion cells, (41) 184
nucleic, cyan, simpler nucleotides from, (71) 695
phosphoric compound, organic, of wheat bran, (72) 1876
phosphoric, inorganic, estimation of, in tissues and food products, (72) 941
Salicylic: See also Salicylates
salicylic, and salicylates, *1071
salicylic, in acute rheumatism, (56) 2103
salicylic, in wounds and typhoid, (7) 1033
ACID, significance of alkalies and, in organic world, (91) 1274
sulphurous, in furuncles, (126) 180
uric, and creatinin, non-protein nitrogenous compounds of blood in nephritis with reference to, (46) 1358
uric, content of blood of dogs, inhalation of carbon dioxid increases, (60) 475
uric, excretion and nuclear digestion in occlusion of pancreatic duct, (8) 2017
uric, formation of, in man, (80, 81) 476
uric, how does it exist in blood, 2143—E
uric, in blood, colorimetric determination of, (84) 1877
uric, in children's blood, (67) 2104
uric, in urine, color test for, (61) 782, (83) 1877
uric, metabolism, studies on, (46) 468, (85) 1877
uroleucic, nonexistence of, 1506—E
ACIDITY in infant's stomach content, (85) 92
of blood, influence of inhalation anesthesia on, (14) 615
urinary, and beta-oxybutyric acid determinations in recurrent vomiting, (47) 695
ACIDOSIS, (47) 1793
and dyspepsia, (18) 699
and nitrogen partition in pregnancy, (2) 698
in children, (33) 1941
sodium chlorid retention and edema, *325
starvation and obesity with reference to, (26) 2096
urine in, improved technic for study of, (63) 1948
with auto-intoxication in infants and children, (3) 367
ACNITIS, origin of pathologic process in, (21) 1684
ACONITE, *1759
as vasodilator, (8) 615
in pneumonia, 1782
tincture of, investigation of potency of, (7) 2017
ACROCEPHALOSYNDACTYLISM, (9) 1682
ACRODERMATITIS chronica atrophicans, (6) 1449
chronica atrophicans, differential diagnosis between diffuse idiopathic atrophy of skin and, (34) 1107
ACROMEGALY, case of, 200 years ago, (11) 277
hypophysis cerebri disease with adiposis and, (122) 1453
ACTINOMYCOSIS, meningitis following, (67) 2025
ACTINOTHERAPY for cancer of uterus and breast, (97) 2027
ADALIN poisoning, case of, (55) 185
ADAMS-STOKES Disease: See also Heart-Block
ADAMS-STOKES syndrome with delay in A-V conduction time, 1938—ab
ADDISON'S DISEASE, (152) 87
ADENECTOMY, control of hemorrhage in, (128) 1797
ADENITIS, tuberculous cervical, and tonsils and adenoids, (8) 368
tuberculous cervical, treatment of, (9, 10) 368
ADENOCARCINOMA, uterus, complete removal of, by exploratory curettage, (135) 1110
ADENOCYSTOMA of labii majoris, large papillary, of fetal origin, (92) 1200
ADENOIDS, diseased tonsils and, early recognition of, (37) 82
immunity produced by tonsils and, in children, (107) 179
instrument for removal of, *1067
operations on tonsils and, apparatus for producing simultaneous suction and pressure for, (100) 1796
systemic infection and tonsils and, (55) 178
tissue, relation of, to middle ear, (27) 1358
tonsils and other throat conditions, relation of, to tuberculous cervical adenitis, (8) 368
ADENOMA, hypophysis, and suprarenal hypernephroma, polyglandular syndrome with, (17) 1196
stomach, polypoid, (133) 180
sweat glands, (117) 378
ADENOMYOMA, rectovaginal septum, (125) 1110
ADHESIONS, abdomen, 2162—ab
abdomen, electromagnet in prophylaxis of, (32) 276
abdomen, liquid petrolatum injected to prevent, (119) 705
abdomen, prevented with sodium citrate in hypertonic solution, (56) 371
heart to lung or thorax wall, (52) 1688
intestine, 1787—ab
intragastric, (131) 1361
postoperative, in peritoneal cavity, prevention of, (24) 1107
sigmoid, importance of, (103) 1685
ulcer of stomach and duodenum simulated by, (69) 2099
ADIPOSIS, hypophysis cerebri disease with acromegaly and, (122) 1453
ADIPOSITY, pilous cerebral, 78—ab, (12) 1793
ADRENALIN: See Epinephrin
ADRENALS: See Suprarenals
ADSORPTION by animal charcoal, (73) 1690
ADVERTISEMENTS, deceptive, and war, 1681, 2002
fraudulent, New York Tribune's campaign against, 61—E
high cost of, (93) 1529
medical profession and, 442—E
of Hynson, Westcott and Co., 1262—P
of patent medicine, newspaper rejects a, 1866—P
of proprietaries, American Journal of Medical Sciences will not accept, without approval of editor, 156—E
patent medicine, Oskaloosa Times rejects all, 1430—E, 1442—C
quack, forbidden in Berlin during war, 65
South Texas Medical Record comes out for clean, 1866—P
AEROPHAGIA, disturbances from, (80) 2106
from surgical standpoint, (73) 375
masks syndromes, (101) 866
AEROPLANE, bullet missing, kills man on ground, (93) 549
factory, tetrachlorethane poisoning from varnish used in, 766—ab, (32) 1276
raid on English coast, 602, 2003, 2152
AGE limit for university professors, adoption of, 1776
middle, conservation of, (60) 1942
Old: See also Geriatrics
old, deferring, literature on, 1096
old, tuberculosis in, (4) 1793
old, urine in, (122) 687
AGGLUTINATION affinities of pathogenic bacillus from fowls with typhoid bacillus of man, (86) 686
and fermentation reactions among streptococci, correlation of, (68) 1359
by syphilitic serum, (54) 1456
in Malta fever, (138) 2029
reaction, simplification of technic for, (93) 949
reaction, staining fluid facilitates, (110) 1691
test, acid, for typhoid bacilli, (59) 1278
test after typhoid vaccination, (80) 2026
test for differentiation of yeasts, (40) 184
test for exanthematous typhus, (82) 1366
test, improved set for, (65) 1365
test positive after typhoid vaccination, (100) 625, (52) 862
AIR, alveolar, carbon dioxid tension in, apparatus to determine, (76) 1279
borne infectious disease and weather, (24) 88
cubic, space, for institutional bottle-fed infants, 2091—ab.
embolism, fatal, in deformed lung in replenishing artificial pneumothorax, (16) 472
embolus cause of death in subcutaneous tenotomy for congenital torticollis, (8) 692
impure, dangers of, (90) 1360
organic matter in, in schoolrooms, (115) 705
we breathe, (73) 275
ALABAMA medical news, 254, 1082, 1252, 1333, 1589
state board January report, 1520
ALANIN, rate at which ingested glycocoll and, are metabolized, (81) 1876
ALASKA, coroner's duty in, 763
surgery among Indians in, *1748
ALBEE and Hibbs operation for transplantation of bone in tuberculosis of spine, relative merits of, (44) 1941
method of bone transplantation for tuberculosis of spine, (8) 81, *400
ALBUCASIS and ancient surgery, 2035—ab
ALBUMIN catabolism in fever, genesis of, (52) 90
coagulation of, by pressure, (50) 467
in sputum as diagnostic aid, *574, (127) 1039
in urine, spontaneously precipitated, (96) 275
Milk: See Milk, Albumin
nitric acid test for, (145) 627
requirement, (29) 1533
serum and glutin, precipitation of, by alkaloidal reagents, (70) 695, (32) 1451
ALBUMINURIA, lordotic, due to mechanical causes plus local and general predisposition, (80) 1037
orthostatic, (140) 552
vesicular, *2040
without nephritis, (102) 285
ALBUMOSES in typhoid, (71) 1458
ALCOHOL: See also Absinthe; Beer
ALCOHOL, *825
Academy of Medicine on prohibition of, 68
accidents and, (32) 1941
and Harrison law on habit forming drugs, 1676—C
and public health, (70) 179
and war, government proposals, 1776
as germicide, (65) 857
campaign against, in Austria, 1859
campaign against, in France, 356, 524, 1437, 1926
campaign against, in Italy, 1776
campaign against, in Latin America, (111) 1460
campaign against, in Russia, 1776
crime and, (97) 1038
degeneration of corpus callosum due to, (106) 1951
denatured, 72
denatured, for external use, 763
denaturing of, 1349
drain treatment of puerperal temperature, (119) 1797
elimination of, from pharmacopeia, (138) 1944
epilepsy and, (139) 626, (84) 948
from nipa sap, 1055—ab
in European armies, 1597, 1663—E
in medical practice, (37) 178
in surgery, (61) 1883
injection of, in spinal ganglia, (72) 1884
injections of, in trifacial neuralgia, (45) 616, (130) 1275
injections of solutions of, into peripheral nerves, *1892
liver lesions due to chloroform, phosphorus and, influence of diet on, (31) 369
Methyl: See Methyl Alcohol
mortality and, 1751—ab
passage of, into urine, (154) 380
poison, victims of, (17) 1276
problem in England, 1339, 1514, 1927
reflex effects of, on circulation, *898
soldiers and, 65, 260
use of, in hospitals, (98) 188
Wood: See Methyl Alcohol
ALCOHOLISM, (69) 1108, (134) 1797
acute hallucinosis due to, in general paralysis with herpes zoster following intraspinous injection of salvarsanized serum, (100) 1360
chronic tobacco poisoning and, (99) 777
digestion of liver tissue in Abderhalden serodiagnosis applied to hard drinkers, (94) 948
from physician's standpoint, (170) 628
hospital treatment of, (1) 81
modern treatment of, (6) 937
ALCRESTA ipecac tablets, 591
ALDEHYD, *994
reaction, Ehrlich's, for urobilin, (96) 179
test, Ehrlich's, for urobilinogen, (25) 774
ALDINE LABORATORIES, 847—P
ALECTRIS CORDIAL, 607—P
ALEUKEMIA, treatment of leukemia and, (81) 1366
with blood picture of aplastic type, (91) 1690
ALBEE and Hibbs operation for transplantation of bone in tuberculosis of spine, relative merits of, (44) 1941
method of bone transplantation for tuberculosis of spine, (8) 81, *400
ALBUCASIS and ancient surgery, 2035—ab
ALBUMIN catabolism in fever, genesis of, (52) 90
coagulation of, by pressure, (50) 467
in sputum as diagnostic aid, *574, (127) 1039
in urine, spontaneously precipitated, (96) 275
Milk: See Milk, Albumin
nitric acid test for, (145) 627
requirement, (29) 1533
serum and glutin, precipitation of, by alkaloidal reagents, (70) 695, (32) 1451
ALBUMINURIA, lordotic, due to mechanical causes plus local and general predisposition, (80) 1037
orthostatic, (140) 552
vesicular, *2040
without nephritis, (102) 285
ALBUMOSES in typhoid, (71) 1458
ALCOHOL: See also Absinthe; Beer
ALCOHOL, *825
Academy of Medicine on prohibition of, 68
accidents and, (32) 1941
and Harrison law on habit forming drugs, 1676—C
and public health, (70) 179
and war, government proposals, 1776
as germicide, (65) 857
campaign against, in Austria, 1859
campaign against, in France, 356, 524, 1437, 1926
campaign against, in Italy, 1776
campaign against, in Latin America, (111) 1460
campaign against, in Russia, 1776
crime and, (97) 1038
degeneration of corpus callosum due to, (106) 1951
denatured, 72
denatured, for external use, 763
denaturing of, 1349
drain treatment of puerperal temperature, (119) 1797
elimination of, from pharmacopeia, (138) 1944
epilepsy and, (139) 626, (84) 948
from nipa sap, 1055—ab
in European armies, 1597, 1663—E
in medical practice, (37) 178
in surgery, (61) 1883
injection of, in spinal ganglia, (72) 1884
injections of, in trifacial neuralgia, (45) 616, (130) 1275
injections of solutions of, into peripheral nerves, *1892
liver lesions due to chloroform, phosphorus and, influence of diet on, (31) 369
Methyl: See Methyl Alcohol
mortality and, 1751—ab
passage of, into urine, (154) 380
poison, victims of, (17) 1276
problem in England, 1339, 1514, 1927
reflex effects of, on circulation, *898
soldiers and, 65, 260
use of, in hospitals, (98) 188
Wood: See Methyl Alcohol
ALCOHOLISM, (69) 1108, (134) 1797
acute hallucinosis due to, in general paralysis with herpes zoster following intraspinous injection of salvarsanized serum, (100) 1360
chronic tobacco poisoning and, (99) 777
digestion of liver tissue in Abderhalden serodiagnosis applied to hard drinkers, (94) 948
from physician's standpoint, (170) 628
hospital treatment of, (1) 81
modern treatment of, (6) 937
ALCRESTA ipecac tablets, 591
ALDEHYD, *994
reaction, Ehrlich's, for urobilin, (96) 179
test, Ehrlich's, for urobilinogen, (25) 774
ALDINE LABORATORIES, 847—P
ALECTRIS CORDIAL, 607—P
ALEUKEMIA, treatment of leukemia and, (81) 1366
with blood picture of aplastic type, (91) 1690

ALEXANDER operation, modification of, for retroversion of uterus, 175—ab
operation through Pfannenstiel incision for retrodisplacement of uterus, modification of, (112) 2020
ALFALFA laccase, (90) 1877
ALGAE, marine, diet of, and iodin content of sheep's thyroid, (74) 941
ALIENISTS, expert testimony by neurologists and, (5) 937
ALIENS, feebleminded, (88) 1796
ALIMENTARY FEVER, experimental study of, (89) 1117
ALIMENTARY TRACT: See Gastro-Intestinal Tract
ALIMENTATION, duodenal, in atony, dilatation and ptosis of stomach, 1874—ab
rectal, value of, 1873—ab
ALKALIES in Asiatic cholera, 1915—E
retention of, in nephritis, (13) 2096
significance of acids and, in organic world, (91) 1274
ALKALINE hypertonic solution in salvarsan poisoning, *1811
ALKAPTONURIA, blood-serum in, 748—E
ALLEN treatment of diabetes, (37) 1875, 2008
ALLERGY: See Anaphylaxis; Immunity
ALLYL morphin, pharmacologic action of, (59) 946
ALOPECIA, (96) 1943
areata, special form of healing of, (48) 1365
epidemic, in small areas, (27) 2018
of hypothyreosis, (40) 1684
ALTITUDES, blood and respiration at moderate, 670—E
blood pressure and, *1812
high, changes in hemoglobin and red corpuscles in blood at, (2) 1189
ALUMINUM acetate for local treatment of pyocyaneus processes, (52) 475
acetate in smallpox, (66) 2104
splints, adjustable, (30) 699
AMANITA phalloides, mushroom poisoning due to, *1230
AMBLYOPIA, coffee, (102) 1453
tobacco, (66) 618
traumatic, following explosion of shells, psychology of, (12) 1531, (30) 1945
AMBULANCE, auto, 161, 755, 1258
automobile surgical, 1861
barges, 259
company, (91) 1032
company, Indiana, two nonmilitary tours of duty of, (104) 1943
construction commission, 449
dogs, usefulness of, 1174
relief corps for France, 1436
service for metropolitan hospitals, systematic, (53) 857
AMEBAS: See also Entamebas
AMEBAS, colitis due to, in child of five, (31) 1875
cultivated from normal human intestine, (43) 695
infection with, (131) 2021
pyorrhea due to, emetin in, *422
AMEBIASIS: See Dysentery, Amebic
AMENORRHEA in diagnosis of extra-uterine pregnancy, clinical significance of, (8) 1874
AMERICAN Academy of Medicine meeting, 1594
Academy of Ophthalmology and Oto-Laryngology meeting, 1668
Association for Study and Prevention of Infant Mortality, meeting of, 78—ab
Association of Anatomists and Federation of American Societies for Experimental Biology, meeting of, 161
Association of Anesthetics meeting, 1925
Association of Immunologists meeting, 1594, 1858
Association of Medical Jurisprudence, meeting of, 2000
Association of Medical Milk Commissions meeting, 1859
Association of Pathologists and Bacteriologists, meeting of, 920, 1170
Bureau of Medical Research, a swindling concern, 1008
Climatological and Clinical Association meeting, 1858
College of Surgeons, *2107
Congress of Internal Medicine, incorporated, 675
AMERICAN Gastro-Enterological Association meeting, 1594, 1858
Gynecological Society, meeting of, 601, 1668
Journal of Medical Sciences will not accept advertisements of proprietaries without approval of editor, 156—E
AMERICAN MEDICAL ASSOCIATION, chairmen of subcommittees of local committee on arrangements for San Francisco Session, 604
commercial exhibit, 1716a
conference on health legislation, 768—ab
Council on Pharmacy and Chemistry, work of, and effect on medical progress, (96) 1685
exhibit at Panama-Pacific Exposition, 1716
Exposition Memorial Auditorium for meetings at San Francisco, 845
golf tournament proposed at San Francisco, 1439
hotel accommodations at San Francisco, 680, 758, 1175
invitation from Tacoma, 2004
members of house of delegates, 1695
membership in, effect on, of removal from state, 1867—C
official call, 1695
preliminary program of scientific assembly, 1708
public health Sunday in San Francisco, 1716
railroad rates to San Francisco, 758
railroad routes to San Francisco, 457, 924, 1011, 1706
San Francisco and environs, 1696
San Francisco meeting, 1665—E
scientific exhibit and health conservation day, 1713
social entertainments, 1716
special trains to San Francisco, 527, 1778
work of, *2107
AMERICAN medicine, *2043
Medico-Psychological Association meeting, 1594, 1859
Neurological Association elects officers, 1858
Pediatric Society meeting, 1086, 1170, 1594, 1925
postgraduate study, bureaus of information for, 168—C
Posture League, meeting of, 920
Proctologic Society meeting, 1668
Red Cross: See Red Cross, American
sanitary missionaries, 1855—E
School Hygiene Association meeting, 1925
Society of Bacteriologists, meeting of, 1086
Society of Biologic Chemists elects officers, 1086
Society of Tropical Medicine, meeting of, 448
thermal springs, therapeutic uses, (95) 1796
Urological Association elects officers, 1510
AMERICANS in Turkey, 1448—ab
original contributions of, to medical sciences, requests for titles of, 265
AMINES, aromatic, mercury derivatives of, (78) 1876
monohalogenacylated aromatic, and hexamethylene-tetraminium salts of, (19) 2096
monohalogenacylated simple, ureas, urethanes and hexamethylene-tetraminium salts, (20) 2096
AMINO-ACID: See Acid, Amino
AMINONITROGEN determination, Van Slyke, in diagnosis of cancer, *1559
AMMONIUM bases, quarternary, action of, (73) 1193
AMPUTATION, ankle joint, method which leaves heel intact, (6) 779
bone stumps, changes after, (42) 700
brain, important portion of, 1437
high, in osteomyelitis with necrosis of femur and spontaneous fracture, (41) 1614
in military surgery, (10) 472, (73) 702
leg, (105) 1616
leg, leaving weight-bearing stump, (81) 1537
leg, reamputation of, (142) 620
leg, ventral decubitus in, (28) 1941
metal disk for, (40) 1277
pedunculated skin flap to cover stumps, (131) 2028
technic for, (130) 2028
AMYL acetate mixture, Dead Shot Cough Remedy contains, 1348
AMYLASE retention and excretion and nonprotein nitrogen retention in experimental uranium nephritis, (23) 1612
ANAEROBES, action of hydrogen dioxid and sugar on, (98) 2027
and puerperal infection, (102) 1691
infection of blood secondary to wounds due to, (16) 1617
simple methods of cultivating, (11) 1362
ANALGESICS and antipyretics, *659
ANALUTOS and Analutos Tablets, 684—P
ANAPHYLATOXIN, nature of, (68) 1796
ANAPHYLAXIS: See also Autoanaphylaxis; Immunity
ANAPHYLAXIS, (71) 371
and immunity, (82) 84
drug, (42) 1941
effect of, on nitrogen metabolism in rabbits, (48) 99
following administration of tetanus antitoxin, (149) 544
intracutaneous injection and, (36) 1112
pregnancy and, (101) 376
studies in, (52) 1451
symptoms of, produced by toxicity of trypsin, (16) 1455
to common foods, 2164—ab
ANARTHRIA due to syphilis, *51
ANASTOMOSIS, arteriovenous, futility of, in impending gangrene of lower extremity, (118) 1361
arteriovenous, of portal vein wards off necrosis of liver after ligation of hepatic artery, (104) 625
arteriovenous, rationale of, *873
axillary artery, end-to-end, (129) 1361
intestine, lateral, new method, (122) 859
lateral, of blood vessels and operation for arteriovenous aneurysm, (24) 1941
lateral, of blood vessels, new method of, 365—ab
ureteroenteric, (21) 1106
ANATOMY, applied, of arm, (50) 622
illustrations in works on, before and during Vesalius' day, (72) 783
in 17th century, *1373
nomenclature, *1569
of Vesalius and da Vinci, (74) 783
revolution in, realized by Vesalius, (71) 783
segmental, (76) 476
vertebrate, comparative microscopic, (119) 1039
ANCYLOSTOMA not ankylostoma, 1081—E, 1346—C, 1519—C
ANEMIA, aplastic, experimental, of benzol poisoning, factors of coagula in, with reference to origin of prothrombin, (64) 1795
aplastic hemolytic, in children, (77) 1037
aplastic, paraplegia dolorosa terminated by, (79) 469
aplastic, staphylococcus sepsis with, following gonorrhea,(78)549
blood-picture in, influence of infections on, (56) 375
cause of, in Malay, Dr. S. T. Darling of Rockefeller foundation to study, 1855—E
experimental pyrodin, ulcer of stomach and duodenum under, (143) 952
hemolytic, iron retention in organs in, (38) 1035
in children, (68) 91
in Colorado, (63) 941
in stomach cancer with bone marrow metastases, (19) 943
infantilism and associated splenomegaly, case of, (155) 627
iron and iron metabolism in, experimental work on, (126) 276
Leishman: See also Kala-Azar; Leishmaniasis
pernicious, (3) 271, (146) 552
pernicious, blood transfusion in, 613—ab
pernicious, in infants, (140) 952
pernicious, in roentgenologist, (19) 780
pernicious, neuropathologic findings in, with psychic implication, (67) 1032
pernicious, primary, blood in, unusual condition of, 2162—ab
pernicious, primary, factors of coagulation in, (12) 2017
pernicious, salvarsan and neosalvarsan in, (11) 1195
pernicious, splenectomy in, (94) 285, (104) 696, *786
pernicious, treatment of, (79) 2106
ANEMIA, pernicious, with subacute combined degeneration of spinal cord, (2) 1797
pseudoleukemic, of infants, in twins, (130) 1530
roentgenotherapy in severe, (24) 780
severe, with leg ulcer, 2162—ab
splenectomy for englared spleen with, (15) 779
splenic, (45) 1197, (92) 1274
splenic, or primary splenomegaly, (38) 1196
splenomegaly with, (81) 1199
ANESTHESIA chart, clock dials on, *242
chloroform, (28) 177
chloroform and ether, (81) 1943
chloroform and ether by vapor method, apparatus for, *824
chloroform and ether in general, *904
effect of operation and, on kidney function, as shown by phenolsulphonephthalein test, (13) 1190
ether insufflation, (110) 619
ether, new method, *1754
general, controller of tongue and palate during, *1757
general, for eye operations, (5) 1530
general, from intramuscular injection of ether, (104) 1623
general, local, and respiratory failure during, causes, (92) 550
general, in gynecology, (39) 374
glycosuria following, influenced by diet, body temperature and purity of ether, (26) 272, 668—E
in gynecology, (30) 89
in labor, (6) 614
inhalation, influence of, on acidity of blood, (14) 621
local and general combined, in major surgery, (10) 1526
local and spinal, in genito-urinary surgery, (14) 856
local, cesarean sections, abdominal, performed under, (119) 858
Local, Congress on, meeting of, 352
local, in operations for hernia and lacerated perineum, (76) 371
local, in skin grafting by Thiersch's method, (4) 1453
local, prostatectomy under, (136) 1361
local, thyroidectomy under,(102)942
local, tonsillectomy under, abscess following, (24) 857
local, vagina operations under, (115) 551
local vs. general in surgery, (79) 1199
local, with reference to nerve-blocking, (111) 1274
magnesium sulphate, nature of, (83) 948
narcotic, (112) 1274
nitrous oxid for, in hospitals, manufacture of, (109) 1194
nitrous oxid gas, in obstetrics, *812, *813
nitrous oxid, in obstetrics, (63) 1273, 2164—ab
nitrous oxid-oxygen, (94) 85, (87) 858, (143) 1362
nitrous oxid-oxygen anoci-association, (52) 1795
nitrous oxid-oxygen, deaths, reports of wanted, 1019
nitrous oxid-oxygen, in general surgery and obstetrics, (79) 179
nitrous oxid-oxygen, in obstetrics, 1187—ab, (28) 1527
nitrous oxid-oxygen, syncope and fatal asphyxia under, (112) 619
novocain-suprarenin infiltration-conduction, in inguinal hernia, (72) 2019
practical, (113) 372
sacral, (42) 774
scopolamin, in nose and throat operations, (71) 1876
scopolamin-morphin as preliminary to local, (113) 85, (148) 1944
scopolamin-morphin, in labor, (96, 118) 85, (2) 176, (87) 371, 459—C, (26) 540, (76, 88, 93) 542, (57) 857, (49) 1031, (55) 1192, (13) 1272, (53) 1273, (29) 1527, (59) 1528, (91, 97) 1616, *1723, *1728, (92) 1796, (73) 1802, (1, 2) 1874
scopolamin-morphin, in labor, are women compelling physicians to use, 1933—ab
scopolamin-morphin, in labor, in home, (88) 618
scopolamin-morphin, in labor, in moving pictures, 1251—E
scopolamin-morphin, in labor, lecture and picture of, 2157—C

ANESTHESIA, scopolamin-narcophin, (120) 619
shock and anoci-association, (127) 620
spinal, (41) 1192, (113) 1274, (18) 1880, (74) 2105
spinal and local, combined, (41) 774
spinal, in gynecology, (40) 774, (193) 1032
spinal, novocain in 43 suprapubic prostatectomies, (34) 2022
spinal, stovain, (107) 778
spinal, vaginal hysterectomy under, (72) 1108
suggested, removal of sebaceous cyst under, (17) 698
ANESTHETICS, (62) 1795
liver function as influenced by narcotics and, (60) 1108
permeability of cell altered by, (62) 1365
refusal to submit to, for examination, 173—MI
resuscitation for alarming conditions brought about by, (156) 276
sequences and methods, selection of, (27) 177
ANESTHETISTS, American Association of, meeting, 1925
Interstate Association of, meeting of, 1008
training of, as surgical assistant, (136) 1944
ANESTHETIZATION of abdominal cavity, (43) 1800
ANEURYSM, aorta, early, (86) 84
aorta, simulating spinal tumor, (134) 626
aorta, with recurrent fever, (11) 615
arteriovenous, (25) 1945
arteriovenous, among soldiers, 1513
arteriovenous, of carotid, with division of vagus, hypoglossal and sympathetic nerves by bullet, (18) 2100
arteriovenous, of femoral vessels following bullet wound through left thigh, (24) 545
arteriovenous, operation for, 365—ab, (24) 1941
carotid artery, external, simulating tumor in tonsil region, (62) 548
electric treatment of, improved, (128) 379
groin, plastic operations, (129) 2028
gunshot, end-to-end suture of common carotid after, (93) 285
gunshot wound and, 679
hematomas and, (58) 475, (118) 949
inguinal, large, transperitoneal ligation of external iliac in, (35) 1684
kidney hematuria, symptomless, from calculus, tumors, early tuberculosis and, (3) 2100
maxillary artery, spontaneous subsidence of, (58) 548
operative treatment of, (88) 1280
popliteal, in girl, Matas' restorative operation, (4) 1035
thoracic, hemiplegia complicating, (146) 86
traumatic pseudo-aneurysm, (31) 709
treatment of, (136) 952
wounds in war cause of, (67) 863, (97) 948, (118) 2028
ANGINA, Ludwig's: See Ludwig's Angina
ANGINA of abdomen, (82) 188
pectoris, (17) 1455, (27) 2171
pectoris, high frequency currents in, (133) 1797
Vincent's: See Vincent's Angina
ANGIOMA, injection of boiling water in, Wyeth method, 464—ab
liver, cavernous, in infant 6 weeks old, (41) 1107
of cerebellum, (57) 2098
racemosa of pia with epileptoid convulsions of Jacksonian type, *1575
spinal cord, extramedullary, (51) 1192
tongue, cavernous, (81) 1274
uvula, (80) 1274
ANICURE, (63) 863
ANILIN dyes, manufacture of, 162
ANIMAL diseases, study of, and Rockefeller foundation, 1435
Experimentation: See also Vivisection
experimentation, society for prevention of abuse in, letter by, 1505—E
ANION and cation, nomenclature, 1348
ANIRIDIA, hereditary, *1310
ANKLE fracture, new type, *318
joint, amputation at, leaving heel intact, (6) 779
Lavandera's, (140) 181
ANKYLOSIS, artificial, of spinal vertebra, (9) 81
elbow, arthroplasty in, *312
experimental study, *391
spine, chronic, curability of, (97) 285
traumatic arthritis with, (71) 1621
ANKYLOSTOMA, ancylostoma instead of, 1081—E, 1346—C, 1519—C
ANKYLOSTOMIASIS: See Uncinariasis
ANOCI-ASSOCIATION, (54) 857, (62) 1615, (114) 1616
in gynecology, (24) 774
in stomach and gall-tract surgery, (69) 1032
shock and anesthesia, (127) 620
ANODYNE in first aid packet, (133) 1879
ANOPHELINAE, transmission of malaria by different species of, 1426—E
ANOSMIA, traumatic, and enophthalmos, (58) 91
ANOSODIAPHORIA and anosognosia, (88) 1274
ANOSOGNOSIA and anosodiaphoria, (88) 1274
ANTAGONISM, quantitative observations on, (74) 1193
ANTHRACENE derivatives, *1912
ANTHRAX as war pestilence, (45) 280
case of, (37) 1192
ANTHROPOLOGIC studies in East Indies, (112) 1281
ANTIANAPHYLAXIS, induced, with serum sickness, (11) 1535
to measles, (88) 1690
ANTIBODY action, mechanism of, (36) 1034
activation of, by cell, (52) 1451
formation against treponema pallidum, (16) 2168
ANTICIPATION, Mott's law of, 1767—E
ANTIDIPHTHERIC horse serum, specific precipitin in blood injected with, (78) 775
ANTIDYSENTERIC serum, rapid production of, (71) 1795
ANTIEMETICS, *2132
ANTIFREEZING solution, auto, 73
ANTIGEN, alcohol extract of beef tonsils superior antigen for Wassermann reaction, (110) 377
cholesterinized, clinical interpretation of Wassermann reaction with reference to, (11) 1106
cholesterinized, serodiagnosis of syphilis with, (85) 1615
in typhoid, (104) 949
Rosenow and Hektoen's, in pneumonia, 2160—ab
specific and nonspecific, in gonococci serodiagnosis, (44) 939
ANTIGONOCOCCUS vaccine and serotherapy in gynecology and obstetrics, (31) 781
vaccine, experiences with, (89) 784
ANTIMENINGITIS serum, Flexner's, in epidemic cerebrospinal meningitis, (7) 1683
ANTIMENINGOCOCCUS serum and autogenous vaccine in cerebrospinal meningitis, (12) 943
ANTINOCI ASSOCIATION, (95) 696
ANTIPNEUMOCOCCUS serum, concentration of protective bodies in, by specific precipitation, (50) 1528
ANTIPYRETICS and analgesics, *659, *740
ANTIPYRIN, acetanilid and phenacetin group, *740
ANTIQUITY, man's, geologic evidences of, (47) 1031
ANTISEPTICS and disinfectants, *1070
for treatment of wounds, experimental studies of, *2123
in war, (10) 183
solutions, Seelig-Gould method of testing, (155) 180
strong, application of, to infected and non-infected wounds, (10) 1195
ANTISERUM, new method of increasing efficiency of vaccines and producing, (96) 1109
ANTITETANUS serum and chloral in tetanus, (42) 1277
serum and tetanus, *1552
serum, preventive injections of, 355 (49) 1036
serum, prophylactic injection of, symptoms of intoxication after, (76) 549
ANTITETANUS serum, subcutaneous injections of, in tetanus, 3 cases cured, (9) 1111
serum successful, 1594
treatment in cases of freezing, necessity for, 1341
ANTITHROMBIN in blood, test for, (47) 1528
ANTITOXIN and leukocytes, (43) 178
diphtheria, and paralysis following diphtheria, (87) 1690
diphtheria, in erysipelas, (61) 186, (123) 1460
diphtheria, intravenous and intramuscular injection of, (69) 1452
diphtheria, intravenous injection of, in children, (5) 367
diphtheria, literature on, 168
diphtheria, protective action of, on reinjection, (64) 375
enormous doses of, in infant, (130) 1679
tetanus, American method of testing, individual and group variations in guinea-pigs in, (38) 2096
tetanus, anaphylaxis following administration of, (149) 544
tetanus, curative value of, (52) 1615
tetanus, during war, use of, 67
tetanus, for Europe, 675
tetanus, intraspinal injection of, *1982, 2164—ab
tetanus treated with, (114) 778
ANTITRYPSIN titer of serum, diagnostic significance of, (107) 1201
ANTIVACCINATIONISTS, unbalanced, 195—ab
ANTIVIVISECTION inquiry, 1505—E
ANTS, bees and cockroaches, possibilities of distribution of infection by, 1662—E
ANURIA, calculous obstruction cause of, (97) 2020
etiologic and surgical phases, (16) 856
salvarsan, hypertonic salt and alkali solution in, *1811
ANUS, congenital defects of rectum and, (107) 2020
fissure of, complete, treatment of, (116) 705
fistula, (46) 1451
fistula and ischiorectal abscess, treatment of, (92) 2020
fistula and male clothing, 1330—E
fistula in children, (2) 778
fistula, new operation for, (87) 1274
fistula, pathogenesis of, 1515
fistula, swallowing sputum and, (45) 1688
prolapse of, in children, treatment, (9) 278
syringe, cleansing, to ward off and treat hemorrhoids, (63) 863
toilet of, in hemorrhoids and eczema, (72) 1620
AORTA, aneurysm, early, (86) 84
aneurysm simulating spinal tumor, (134) 626
aneurysm with recurrent fever, (11) 615
arch of, perforation of, with safety pin impacted in esophagus, (14) 1111
dilatation of arch of, in chronic nephritis with hypertension, (5) 1449
nodular endarteritis of, about intercostal arteries, (83) 696
operations on arch of, in dogs, (65) 623
AORTITIS, syphilitic, (86) 1615
APHASIA and apraxia, case of, (118) 180
motor, with fracture at base of skull, *1233
treatment, (35) 1945
APHTHOUS FEVER, case resembling, (64) 84
APLASIA, kidney and ureter, left, (31) 2101
APOMORPHIN, *2066
APOPLEXY: See Brain, Hemorrhage
APPARATUS: See also Instrument
APPARATUS, artificial pneumothorax, (6) 620, (27) 1684, (101) 2027
atomizer bracket, new, *1069
baby pocket scale, (7) 367
blood transfusion, and new method, *1315
bone clamp, new, *1753
brace for extension in wounds of long bones, (94) 92
brace, metal, for extension in fracture of humerus, (19) 278
APPARATUS, breast pump, (4) 1682
carbon dioxid tension in alveolar air, determination of, (76) 1279
chloroform and ether, administration of, by vapor method, *824
electric-heated water-jacketed infant incubator and bed, *1068
electric heater for staining bacillus tuberculosis, *823
electric, improved, for locating bullets in tissues, (51) 1036
electric treatment of wounded nerves, (50) 1036
ether, administration by intratracheal insufflation, portable, positive pressure, *138
ether administration, new method, *1754
ether mask, improved, *823
face shield for nose and throat work, (68) 618
fluoroscope switch, *1580
for ambulatory treatment of fracture of tibia, (80) 1615
for assisting in application of dressings about hip, *240
for extension of fractures in war, (114) 1691
for fractured bones, *2132
for holding solution bottles in operating rooms, *584
for immobilization and adjustable extension of fractures, (30) 1618
for inactivation of serum, *584
for injection of salvarsanized serum, *1317
for localization by Roentgen ray, (8) 1275
for localizing foreign bodies, (68) 186
for measuring dosage of Roentgen rays, (79) 187
for mobilizing stiff joints, adjustable, (100) 1623
for moistening air, 611
for producing simultaneous suction and pressure for tonsil and adenoid operations, (100) 1796
for recording differential counts, *584
for securing traction of lower extremities, (126) 1530
for study of hearing capacity, (107) 377
for therapeutic exercises, (113) 551
for writing with teeth after loss of arms, (57) 2024
Frank's segment capsules, adaptation of, for clinical use in recording pulse records, *1305
head-mirror and face protector, new combined, (120) 85
infant specimen urinal, *1908
intubation and tubes for treatment of chronic stenosis of larynx, *1066
iodin fumigator, (117) 1194
measuring board for infants, (106) 1878
mechanical devices for overcoming writer's cramp, (91) 92
orthopedic universal, (33) 2102
pessary and tampon holder, improved, *1067
retaining clamp for two-piece transfusion tube, *1580
shield for prostatic examinations, *1909
sphygmomanometer findings controlled by, (115) 866
sphygmomanometer, portable, (82) 284
splint, aluminum skeleton, in compound fractures, (7) 2022
splint, flexible metal, adaptable to any angle of knee or elbow, (55) 83
splint for fractures about elbow joint, adjustable, *1755
splint, lateral pressure, for fractured neck of femur, *239
sterilizer for dressings, portable, (22) 372
suction, *1910
telephone probe, theory of, (14) 779, (22) 1945
to measure amount of blood in living body, (77) 549
tray for holding gall bladder calculus, (115) 1194
tubes for intra-urethral medication, *1754
urethral clamp for postoperative urine incontinence, (107) 1878
vacuum tube of Keidel in blood-culture work, *822
walking casts, (77) 1949
walking, extension, for fracture of femur, (26) 699
APPENDECTOMY, diverticulum of cecum following, (160) 181
technic for, (92) 1117

V. 191

APPENDICES EPIPLOICAE, strangulation in hernia of, (137) 2029
APPENDICITIS, (134) 180, (79) 2099
acute, and acute appendicular obstruction, (7) 183
acute, and appendicular peritonitis, pathologic changes in, (7) 1449
acute, at Massachusetts General Hospital, (30) 1941
acute, cause of, and pulse examination, (33) 1881
acute, 100 operations, end results of, (86) 1685
abdominal affections and, (147) 697, (134) 1194
anticolon bacillus serum and vaccine in, (9) 544
bacteriology of, 1584—E
bacteriology of, and production of, by intravenous injection of streptococci and colon bacilli, (60) 1359
catharsis after operation for, (120) 942
cecal stasis due to, (11) 176
chronic, abdominal Roentgen ray before operation for, (25) 1684
chronic, and chronic indigestion, (120) 697
chronic, conditions that simulate, (20) 545
chronic, differential diagnosis of, (82) 91
chronic, pylorospasm and duodenal ulcer, *1845
chronic, reflex disturbances due to, (93) 179
chronic, study of, (88) 1360
diagnosis, (80) 549, (70) 623, (114) 866
differential diagnosis of typhoid, gastro-enteritis and, (126) 1194
differentiation, complications and local anesthesia, (55) 1036
effusion into intestine wall simulating, (131) 1944
etiology and experimental production of, 1524—ab
factors in, 1931—C
false, (37) 2172
Fowler position in, pelvic abscess following, (61) 857
gangrenous, during pregnancy, (146) 2029
gangrenous, on left side, *1986
gangrenous, thrombophlebitis of portal vein complicating, (62) 940
genital symptoms with, (78) 187
in children, (56) 1036, (97) 1194, (109) 1616
in children, surgery of, (82) 1360
in field hospitals, (107) 2027
in India, (141) 552
internist's view of, (145) 698
liver abscess complicating acute, (54) 1036
morbidity and mortality of, responsibility for, (91) 858
perforating, surgical technic after treatment, (50) 274
pneumonia with symptoms of, with expulsion of ascaris, 2 cases, (27) 183
pregnancy complicated by, 2 cases, (54) 1273
pylephlebitis complicating, (23) 1940
rigidity of right external oblique muscle in, 1931—C
roentgenoscopy of, (3) 182
sciatica symptom of, *579
statistics in Prussian hospitals in 1912, 1934—ab
suppurative, drainage in, (163) 182
trauma and, (56) 774
treatment, (127) 1194, 1522—ab
under field service conditions, (91) 275
ureter calculus simulating, (90) 858
urobilinogen content of urine, high, sign of destructive lesions, (88) 1200
APPENDIX, abscess of, acute, in 13 months' infant, (26) 1617
black, pigmented, (10) 598
congenital inguinal implantation of, *819
cyst, pseudomucinous, relation to pseudomyxoma peritonei, *1834
cyst, pseudomyxomatous, with calcification of walls, *657
cystic dilatation of, (22) 1941
dyspepsia due to, (146) 697
exposure of, by Cullen's method, *299, 1017—C
filiform, series of, (129) 469
gangrenous epiploic, (35) 1941
obliteration of, (24) 1450
obstruction, acute, (1) 1530
physiology of, (59) 623
APPENDIX, roentgenoscopy of lesions of, (15) 1612
ruptured, at full term pregnancy, *739
stump, new method of disposing of, after removal, (80) 2100
stump, pincers to turn inside, (119) 93
tumor, non-malignant, (38) 1364
worms in, pathologic meaning of, (30) 1799
APPETITE, pathology of, (61) 1198
APRAXIA and aphasia, case of, (118) 180
motor, from lesion of corpus callosum, (111) 866
motor, tonic innervation and, (4) 942
transient, of one hand, imbecility in late infancy with, (86) 703
AQUEOPLASTY, or Zorab operation for glaucoma, (101) 1529
AQUEOUS humor, changes in blood and, in methyl alcohol inhalation, (37) 1795
ARDEN, JOHN, description of symptoms of hydrophobia in 14th century, 152—E
AREA, surface, of man, (5) 2095
ARGENTINA, sanitary works in, 2173—ab
ARIZONA state board April report, 1869
state board January report, 1097
state board October report, 362
ARKANSAS eclectic November report, 362
homeopathic November report, 850
medical news, 671, 750, 838, 1920
state board November report, 1019
state board reciprocity report, 764
ARM: See also Forearm
ARM, applied anatomy of, (50) 622
emboli in, operative removal of, (152) 2030
fracture of, extension splint for, (89) 284
nerve trunks of legs and, surgical intervention in lesions of, by military projectiles, 68
spasm of left, continuous clonic, caused by tumor of brain, (13) 938
vasomotor and trophic disturbances of, with reference to thromboangeitis obliterans, (18) 938
wounds of upper, latent injury to arteries in, (45) 1688
ARMY: See also Soldiers; War; Wounded; Wounds
ARMY, admission of men with glasses into, (6) 2169
alcohol in, 260, 1663—E
camps, food waste in, 1172
dentists, examination of, 448
food-supply of, in field, 603
German, deaths in, 65
health of our, 155—E
health of, parliamentary investigation into, 603
infectious diseases in, prophylaxis of, 355
medical school graduation, 2079
military service, reorganization of, 1596
need of, for physicians, 1513
physical defects met with in raising, (22) 1880
preserved meats for, 68
sanitary service in French and German, Italian inspection of, 1776
typhoid vaccination in Italian, 579—ab
typhus prophylaxis in, 67
U. S., sanitary troops, 1914, drill regulations and service manual for, (88) 469
volunteers for, examination of, experiences in, 1090, (45) 1112
ARNETH counts, variations of, in West Africa, (23) 1945
leukocyte count, significance of, (9) 1797
ARNOLD, J., death of, 922
ARRHYTHMIA, cardiac, differentiation, (115) 543
clinical importance of, (69) 1115
perpetua, clinical picture of, with transitory complete irregularity of heart, (65) 702
ARSENIC, *2134
and quinin in kala-azar, (8) 1797
compounds of, effect of, on Rous chicken sarcoma, (15) 2168
distribution of, in human body, (51) 467
excretion, control of, salvarsan therapy based on rapidity of, (51) 83
in human organs, physiologic occurrence of, (31) 89
in spinal fluid, *1384
ARSENIC, mercury and iron compounds for syphilis, (81) 1115
paste, multiple neuritis from, (139) 2021
poisoning, (113) 1194
ARTERIOSCLEROSIS, (68) 179
and hyperplesis, (37) 1687
and mental diseases, (80) 179
and ophthalmology, neurology and surgery, (126) 1879
epistaxis in, (129) 1879
life insurance and, (132) 1879
ophthalmologist's view of, (127) 1879
prostate operations and, (131) 1879
results of, (12) 1683
surgery in, (128) 1879
uterus hemorrhage and, (130) 1879
ARTERIOTOMY for embolism, (131) 951
ARTERIOVENOUS anastomosis in impending gangrene of lower extremity, futility of, (118) 1361
anastomosis of portal vein wards off necrosis of liver after ligation of hepatic artery, (104) 625
anastomosis, rationale of, *873
aneurysm among soldiers, 1513, (25) 1945
aneurysm of carotid with division of vagus, hypoglossal and sympathetic nerves by bullet, (18) 2100
aneurysm of femoral vessels following bullet wound through left thigh, (24) 545
aneurysm, operation for, (24) 1941
ARTERITIS obliterans due to syphilis, (47) 1451
ARTERY, auscultation of, (48) 1946
axillary, anastomosis of, end-to-end, (129) 1361
axillary, traumatic aneurysm in, spontaneous subsidence of, (58) 548
blocking or nerve blocking in prevention of shock, (134) 1944
brachial, embolus of, arteriotomy for, (146) 952
carotid, aneurysm of external, simulating tumor in carotid region, (62) 548
carotid, common, ligation of, after gunshot wound, (88) 1950
carotid, high bifurcation of common, (39) 1630
coronary, action of opium alkaloids on coronary circulation and, *1489
coronary, old obstruction of left, cancer of pylorus with organized infarct of heart wall and aneurysm, (12) 545
disease of, experimental, in rabbits, (89) 84
diseases of heart, kidneys and, chronic, (58) 2099
fatty degeneration of intima of, (48) 1451
femoral, compression of, as test of functional capacity of heart, (69) 2025
hepatic, ligation of, arteriovenous anastomosis of portal vein wards off necrosis of liver after, (104) 625
injury to, in wounds of upper arm, (45) 1688
intercostal, nodular endarteritis of aorta about, (83) 696
intercostal, tampon for severed, (11) 1530
palpability of, (51) 90
pulmonary, atheroma of, and dilatation of right ventricle, heart failure in child of 6 with, (2) 1195
radial, rupture of, with fracture of radius in chauffeur, (4) 1797
retinal, central, embolism of, (28) 1112
sphygmomanometer records of pressure, inversion of respiratory waves in, (7) 1190
syphilis and alterations in structure of, (31) 1880
temporal, transplantation of anterior, *408, 685—C
wounds, (86) 275
wounds, infected, (82) 1116
ARTHRITIS: See also Gout; Joint Diseases; Rheumatism
ARTHRITIS, acute, infectious, metastatic, pathology and treatment, (113) 858
chronic, causes, classification and treatment, (116) 551
deformans, infection cause of rheumatism, endocarditis and, (50) 747
experimental, effect of sodium salicylate on, (25) 1612
ARTHRITIS, focal infection and bacteriology of, (54) 468
gonococcus septicemia with, following scarlet fever, (28) 82
gonorrheal, (77) 1279
ileocolostomy or colectomy for, various forms of, (10) 2100
joints of hand, following Colles' fracture, 10 cases, (130) 1361
meningococcus, (49) 1688, (34) 1881
oral osteitis in relation to, (93) 1109
rheumatoid, of hypertrophic type, treatment of, (12) 1612
rheumatoid, pituitary extract in, (11) 692
rheumatoid, study of urinary nitrogen and sulphur partition in, intravenous injection of radium salts in, (9) 1793
suppurating, diagnosis of, after fractures in war, (35) 1800
traumatic ankylosing, (44) 1535, (71) 1621
ARTHRODESIS in lateral deformity of foot, (5) 692
shoulder, for deltoid paralysis, (134) 1202
ARTHROPLASTY in ankylosis of elbow, *312
or nearthrosis, (1) 692
report of cases, (65) 2099
ARTHROTOMY for wounded suppurating joints, (37) 1618
ASCARIS lumbricoides within body of tonsil, *659
pneumonia with symptoms of appendicitis with expulsion of, 2 cases, (27) 183
ASCITES, papillary cystoma of ovaries with, 1102—ab
ASEPSIS, sins against, in operating, (107) 705
ASPERGILLOSIS of nasal accessory sinuses, (22) 1687
ASPERGILLUS niger, mycodextrin content of, influence of autolysis on, (76) 695
ASPHYXIA, fatal, and syncope under nitrous oxid-oxygen anesthesia, (112) 619
ASPIRIN: See Acid, Acetyl-Salicylic
ASSOCIATION of American Medical Colleges election, 754
of American physicians, aims of, *2043
of American Physicians elects officers 1859
of Medical Museums meeting, 1511
of Railway Chief Surgeons meeting, 1668
ASTASIA-ABASIA, (71) 1615
hysteric, in acute multiple neuritis, (79) 275
ASTHMA, 247—T
bronchial, (102) 619
bronchial, etiology of chronic bronchitis and, 1104—ab
bronchial, nature and treatment of, *2115
bronchial, severe, cured by intranasal surgery, (61) 541
horse, parenteral administration of horse serum in, (34) 1941
surgical interference in gastro-intestinal tract and, (104) 1616
thymic, roentgenotherapy of, 2 cases, (158) 180
ventilatory function of lung in emphysema and, (3) 538
ASTIGMATISM, mixed irregular, following injury, (103) 1453
ASYMMETRY, bilateral, in human body, (74) 549
ATAXIA, acute, and encephalitis, (23) 183
Friedreich's myxedema and dwarf growth, familial occurrence of, (57) 701
Locomotor: See Tabes Dorsalis
ATHEROMA of pulmonary artery and dilatation of right ventricle, heart failure in child of 6 with, (2) 1195
ATHLETES, metabolism of normal individuals and, of like weight and height, (38) 1558
ATHLETICS, competitive, foreign view of, 910—E
competitive, injury from, 7 cases, (167) 628
competitive, physiology and pathology of, (40) 2172
heart accidents in, (125) 1453
winter, injuries at, (50) 1619
ATOMIZER bracket, new, *1069
for applying tincture of iodin, (66) 863
ATONY, constitutional, dilatation of stomach from, (58) 1688
ATOPHAN and novatophan, action of, on gout and iritis, (39) 939
clinical experiences with, (68) 1883

ATOXYL, transformed, different amounts of, produced by incubating 1 per cent and 10 per cent stoxyl in blood, (65) 1108
ATROPHODERMIA biotriptica in natives of Anglo-Egyptian Sudan, (31) 2022
ATROPHY, infantile, in hospitals, prevention of, (12) 874
neuromuscular, progressive, 3 cases, (27) 1191
ATROPIN, *337, *431
effect of strychnin, caffein, camphor and, on respiration, (34) 273
in dysmenorrhea, *120
mania after use of, in eyes, (107) 371
solutions, loss of pharmacologic power on standing, (109) 705
AUCHMEROMYIA luteola, morphology and biology of, (9) 372
AUDITORY canal, foreign bodies in, removing, *1908
center, bilateral lesion of, (16) 1945
nerve, tumor involving, removal of, through petrous bone, (122) 1368
AURICLE, cardiogram of right, (85) 784
fibrillation, (55) 541
fibrillation and changes in sinus node, 941—E
fibrillation, clinical significance of, (85) 1274
fibrillation, coarse, in man, (16) 2018
fibrillation, paroxysmal types of tachycardia with reference to, (36) 1687
fibrillation, prognosis of, *2057
flutter, paroxysmal, heart-block with, (81) 187
AURICULOVENTRICULAR rhythm with long A-C interval, (17) 1617
AUSCULTATION and percussion, (78) 1360
larynx, differential diagnosis of membranous croup by, (94) 1038
of arteries, (48) 1946
AUSCULTOPLECTRUM, combined stethoscope and percussion hammer, (107) 619
AUSTIN Flint-Cedar Valley Medical Association, (64) 695
AUSTRALIAN medical service, 449
AUTOGENOUS Vaccine: See Vaccine, Autogenous
AUTOHEMOTHERAPY, (83) 703
in typhoid, (30) 1112
AUTOINTOXICATION, Intestinal: See Intestine, Intoxication
AUTOLYSATES of tissues, history of method of treating cancer by, (93) 188
AUTOLYSIS and involution, (17) 693
influence of, on mycodextrin content of aspergillus niger, (76) 695
studies of, (30) 2096
AUTONOMIC reciprocal activities of brain and viscera, *321
AUTOPSY: See Necropsy
AUTOSEROTHERAPY in pellagra, *1566
in skin diseases, *1228, 1266.
in streptococcic endocarditis, (124) 180
in typhoid, ineffectual, (64) 2104
AUTOTRANSPLANTATION, bone, for nasal deformity due to syphilis, (44) 1795
AVIATORS, darts used by, (74) 1199
injuries to, 1354—ab
AXILLARY abscesses, treatment of, (47) 1365
artery, anastomosis of, end-to-end, (129) 1361
artery, traumatic aneurysm in, spontaneous subsidence of, (58) 548

B

BABY health conference movement, cooperation of medical profession in, (29) 1875
BACCELLI method of intravenous injection of bichlorid of mercury in acute rheumatism, 1348
BACILLEMIA, tuberculosis, primary, in infants, (16) 2170
BACILLUS aerogenes capsulatus group of bacteria, classification of, (72) 775
aerogenes capsulatus in feces, 916—E
aerogenes capsulatus in feces of children, (49) 617
aerogenes capsulatus infections, (66) 1273
BACILLUS aerogenes capsulatus, puerperal infection with, (81) 284
aerogenes capsulatus sepsis, (44) 1113
aerogenes capsulatus, spore formation of, effect of symbiosis on, with reference to presence of spores in feces, (73) 775
Boas-Oppler, diagnostic importance of, in stomach contents, (49) 1192
Boas-Oppler, identity of, in stomach cancer, 1004—E
bulgaricus, commercial preparations of, *809
bulgaricus, implantation of, study of so-called, (58) 1358
bulgaricus in cystitis with alkaline urine, 465—ab
bulgaricus in diabetes mellitus, (139) 1797
bulgaricus in typhoid, (27) 774
Carriers: See Carriers.
coli, bullous dermatatis due to, vaccine therapy, (42) 1685
coli, experimental effect of, on kidney, *297
coli in pasteurized milk, significance of, *1289, 1767—E
coli in urine in children, treatment of, (7) 698
coli infection, (59) 1942
coli infection in middle ear disease, (147) 86
coli, intravenous injection of streptococci and, production of appendicitis by, (60) 1359
coli vaccine in acute infectious diseases, (50) 782
colon exaltations, (37) 1107
diphtheriae, bacteriemia due to, (63) 1358
diphtheriae, differentiation of, Gins' and Conradi's methods for, not reliable, (79) 2025
diphtheriae, distribution of, in body, (85) 1623
diphtheriae, staining for microscopic examination, (124) 1368
diphtheroid, association with various disease conditions, (119) 1361
dysenteriae, acute hemorrhagic colitis without, (99) 92
fusiform, found in vagina, (54) 1031
in blood, lymph glands and joint effusion in rheumatism, (90) 784
influenzae in genitalia at term, cause of puerperal infection, (97) 2027
lactic acid, in diabetes mellitus, *495
mucosus capsulatus septicemia of infant, (59) 1273
paratyphosus infections, (93) 865
paratyphosus, isolated from blood, (47) 2024
paratyphosus with severe jaundice in boy of five, (98) 1367
pathogenic, from fowls, agglutination affinities of, with typhoid bacillus of man, (86) 696
Perez, and relation of ozena to distemper in dog, (32) 944
pestis, development of, in bed bugs and power to convey infection, (21) 1034
pestis in alimentary canal of fleas, length of time fleas are able to survive without host and reinfect with plague, (19) 1034
proteus infection, (53) 1363
proteus, pathogenic properties, of, (21) 2169
pseudodiphtheriae, (132) 626
pseudotuberculosis, plague immunization by, (13) 1033
pullorum (Rettger), and fowl typhoid bacillus (Moore), (88) 696
rhinitis, bacteriology of rhinitis with reference to, (47) 2097
smegmae, 685—C
smegmae, differentiation of, from bacillus tuberculosis, 347—E
tetani, cultivation of, from blood, (107) 1951
tetani, desiccated and pulverized cultures of, killed by heat as preventive of tentanus, (87) 1286
tetani, distribution and habitat of, experimental study of, (55) 1359
tuberculosis, action of lecithin on, and relation to experimental tuberculosis, (46) 83
tuberculosis, exceptionally in blood in chronic tuberculosis, (108) 1460
tuberculosis, function of spleen in experimental infection of mice with, (35) 370
tuberculosis, human and bovine, effect of daylight and drying on, (13) 620
BACILLUS tuberculosis in blood, (42) 1113
tuberculosis in blood of infants, (29) 1112
tuberculosis in blood, test inoculation of guinea-pigs for, (50) 1456
tuberculosis in feces, diagnostic import, (115) 1282
tuberculosis in urine and lung tuberculosis, (64) 941
tuberculosis in urine, significance of, *886
tuberculosis infection, simultaneous of human and bovine type, in child, (33) 2097
tuberculosis, inhibiting influence of copper salts on growth of, (44) 474
tuberculosis, isolation and cultivation of, directly from sputum and feces, new method, (33) 369
tuberculosis, isolation and cultivation of, from discharging ear in chronic purulent otitis media, (67) 1685
tuberculosis, meningitis with associated meningococcus and, (25) 183
tuberculosis, sodium tellurite test for viability of, (75) 776
tuberculosis, sperm oil cultures of, (14) 1531
tuberculosis staining, electric heater for, *823
tularense conjunctivitis, acute, (35) 1793
typhosus, acid agglutination test for, (59) 1278
typhosus, blood changes after injection of, in rabbits, (128) 1202
typhosus coeli group, specific ferments for, production and detection of, (67) 1358
typhosus, cultivating from blood, bile and feces, simplified technic, (32) 1618
typhosus, cultivation of, from blood, modified bile technic for, (70) 702
typhosus, cultivation of, improved technic for, (112) 950
typhosus, found less frequently in blood after vaccination, (81) 1949
typhosus, fowl, pathogenic action of, with reference to certain toxins, (87) 696
typhosus, method to determine presence of, 260, (109) 1691
typhosus (Moore), fowl, and bacillus pullorum (Rettger), (88) 696
typhosus of man, agglutination affinities of pathogenic bacillus from fowls with, (86) 696
typhosus, sensitized, *489
typhosus, sensitized and nonsensitized, relative virulence of, (71) 775
Y, institutional dysentery due to, (4) 1879
BACK, pain in lower, and legs, significance of, from orthopedic standpoint, (39) 1879
BACKACHE, low, and sciatic pain, anatomic explanation of, (86) 371
BACKWARDNESS: See Feeblemindedness
BACTERIA, acid producing, improved differential medium for, (84) 550
behavior of, toward purified animal and vegetable proteins, (51) 1358
cultivated from human cadaver, significance of, (80) 696
cultivation of, from feces, technic of, (97) 1950
cultures, folding paper demonstrating case for, *1579
hemoglobinophilic, infections with, *1814
in gastro-intestinal tract, (6) 2100
in milk, enumeration of, (116) 469
in water, 20 degree and 37 degree plate counts for enumerating, (17) 466
intestinal, and diet, 1500—E
intravascular dissemination of, local infection due to, (119) 1361
kaolin to remove, from nose and throat, *1985
Leidy on nature of, 1994—E
luminous, light production by, studies on, (16) 1794
nomenclature of, (22) 2171
production through immunization of specific ferments against, as detected by Abderhalden test, (66) 1358
reactions between animal tissues and, under artificial cultivation, (62) 775
suspensions, standardization of, by opacity, (20) 1363
BACTERIA, vaccine virus free from, pure cultivation of, in vivo, (13) 2168
vaginal, hemolysis of, influence of menstruation on, (73) 283
variations in, 1852—E
BACTERIEMIA, clinical significance of, (36) 1273
due to bacillus diphtheriae, (63) 1358
BACTERIN: See Vaccine, Bacterial
BACTERIOLOGY at front, (105) 2027
year's progress in, (55) 695
BAHIA, University of, Prof. Pacifico Pereira of, 258
BAKERY, clean, 225—ab
BAKING powders, 1095
BALANTIDIOSIS, emetin hydrochlorid and salvarsan in, (27) 1875
BALANTIDIUM coli, (109) 619
BALDNESS, premature, 1018
BALKAN WAR, medical experiences in, (133) 860
medicomilitary observations in, (92) 371, (87) 469
surgical experiences in, (50) 374
Swiss Red Cross unit in, (23) 279
BALNEOTHERAPY: See also Baths; Hydrotherapy
BALNEOTHERAPY at home for gynecologic trouble, (107) 551
influence of, on concentration of blood in capillaries, (57) 185
BALSAM OF PERU, emulsion of, 459
for gunshot wounds, (87) 284
BANANAS in dietetic treatment, (78) 476
ripening and storage of sweet potatoes and, 1164—E
BANDAGE, injury from negligently cutting through, 1870—MI
material, substitutes for, 356
BANG'S micromethod of concentration of blood sugar in health and disease, (22) 938
test for sugar in blood, advantages of, (79) 624
BANNERMAN'S Intravenous Solution refused recognition by Council, 70—P
BANTI'S DISEASE: See Anemia, Splenic
BARDE, DR., death of, 163
BARRY'S Freckeless, 1346—P
BASEDOW'S DISEASE: See Goiter, Exophthalmic
BASOPHIL granules in blood corpuscles as sign of lead poisoning, (101) 1280
BASSINI operation, modified, for inguinal hernia, (86) 188
BATH: See also Balneotherapy; Hydrotherapy
BATH, continuous flow, and high blood-pressure, (110) 1275
continuous, for open ulcerations, (108) 626
continuous, for phlegmons, (70) 186
continuous warm, in psychoses, 1347—C
for wounded soldiers, (7) 860
Nauheim, administration of, in England, (39) 1687
thermal, with weak heart, (98) 1690
trains, 1436, 1437, (33) 2171
BATHING in Great Salt Lake, metabolic influences of, (10) 1189
BATTLE field impressions, first, (57) 91
fields, sanitation of, 1777
naval, casualties in action between Pegasus and Königsberg, (13) 1880
naval, collapse after, (80) 284
naval, North Sea action of January 24, (14) 1880
BEDBUG, alimentary tract of, (25) 1363
development of bacillus pestis in, and power to convey infection, (21) 1034
fertilization in, (17) 1363
BEDSIDE records, 930
BEEF tonsils, alcoholic extract of, superior antigen for Wassermann reaction, (110) 377
BEER, drinking, Franklin's views on, 1933—ab, 2085—C
production and food supply, (74) 1457
BEES, ants and cockroaches, possibilities of distribution of infection by, 1662—E
poison of, in chronic rheumatism in children, (54) 1535
BEHRING antitetanus serum, (74) 947
Roumanian decoration for, 1925
BELGIAN field hospitals need aid, 841
"Odyssey," 354

BELGIAN physicians, aid for, 62—E. 65, 258, 354, 448, 449, 523, 602, 675, 755, 842, 914—E, 921, 1009, 1087, 1172, 1257, 1338, 1436, 1511, 1595, 1670, 1776, 1860, 1926, 2000, 2079
physicians and pharmacists fund, 162, 459
students, scholarships for, 1347—C
BELGIUM, health service for, 678
more aid for, 1436
Red Cross units for, 1008
BELL'S phenomenon, pathology of, (38) 1795
BELLADONNA, tolerance to, *658
BELL-ANS, 264—P
BENCE-JONES protein, 669—E
BENZENE: See Benzol
BENZIDIN test, dry, for invisible blood, (34) 474
BENZIN, carbon tetrachlorid noninflammable substitute for, (92) 1037
substitute for alcohol in tincture of iodin, (106) 866
BENZOATES and benzoic acid, *1072
BENZOL, action of, experimental research on, (74) 1690
and roentgenotherapy in myelogenous leukemia, (80) 469
derivatives of, *1070, *1155
fumes, acute fatal poisoning from, (41) 1112
in chronic lymphoid leukemia, (12) 1111
in leukemia, *1734
in leukemia and lymphosarcoma, (12) 1195
in lymphatic leukemia, (34) 1614
in splenomyelogenous leukemia, *505
medicinal, 53
poisoning, experimental aplastic anemia of, factors of coagulation in, with reference to origin of prothrombin, (64) 1795
BERGONIE-KELLOGG method, new application of ergotherapy by, in obesity and other chronic disorders, (96) 1796
BERIBERI and diet, 1668
infantile, (70) 91
prevention of, among Philippine scouts, by modifications in diet, *1215
serum, action of, on frog's vessels, (126) 1039
BERLIN, death rate in, last year, 2174—ab
letter, 163, 260, 356, 452, 524, 603, 678, 757, 844, 922, 1009, 1090, 1174, 1259, 1341, 1438, 1515, 1597, 1861, 1926, 2003, 2081
Remedy Company, 847—P
BESREDKA'S tuberculin, serodiagnosis with, and tuberculosis among syphilitics as diagnosed by this test, (27) 272
BICEPS flexor cubiti, rupture of, 8 cases, (27) 1940
BIFIDA, cranial and spinal, (62) 1032
BILE, accumulation of, in peritoneal cavity after gunshot wound of liver, (54) 862
and pancreatic ducts, new growths involving, (6) 271
cholesterin in, conditions that favor precipitation of, (144) 952
duct, calculus in, duodenotomy in, (34) 1030
duct, cystic and common, perforation at juncture of, primary suture, (101) 2020
duct, diseases of liver, pancreas and, recent progress in, (123) 551
duct, helminths in, (60) 1883
duct, operations on, butterfly retractor in, (121) 858
duct, repair and reconstruction of, (6) 177
feeding of, collected from biliary fistulas, in obstruction of common bile duct, *1900
pigment derivatives in echinococcosis of liver, (105) 551
pigment, production of, outside of liver, (118) 1460, (107) 1538, (107) 1624
pigment, relation of, to hemoglobin, (10) 372
pigment, test for, in body fluids, (118) 1460
pleurisy from transpleural wound of liver, (66) 1948
technic for cultivation of typhoid bacilli from blood, (70) 702
thickening of, gallbladder calculus from, (121) 1460
tract, operations on stomach and, liver in relation to, (50) 617
tract, pathology of, from clinical standpoint, (138) 1292
BILLET, ALBERT, death of, 2003
BINET-SIMON intelligence tests for feebleminded children, (122) 1460
intelligence tests in psychoses of senium, (107) 1032
BIOLOGY and social science, 1124—ab
BIRCH TAR, oil from, as substitute for Peruvian balsam in infection of soft parts, (102) 625
BIRTH fracture of femur, treatment and end results, (56) 1273
legal record of, 140—ab
rate, declining, in Mecklenburg-Schwerin, (32) 781
rate, declining, struggle against, in France, 1597
rate, influence of war on, 1259
rate, lowest, on record in England, 1173
registration, securing better, 1322—ab
BITTER tonics, action on gastric secretion, *15, 58—E
BLACKWATER FEVER, (21) 1945
and quinin, (8) 1362
in Formosa, (1) 942
schedule for recording cases, (18) 372
BLADDER, access to, with hysterectomy for prolapse of uterus, safe method, (59) 475
atony and prostate obstruction, obscure forms of, (22) 1106
bullet in, extracted through urethra, (44) 944
calculus, crumbling of, spontaneous, 3 cases, (41) 700
calculus evacuator, (97) 179
calculus, organic framework of, (110) 1202
cancer, 1790—ab
cancer, radium in, (70) 857
cysts in, (157) 380
diverticulum of, (52) 940, (44) 1107
diverticulum of, operation for, (114) 1460
diverticulum of urinary, congenital, in infants and children, (126) 1943
exstrophy of, total, operative treatment, (49) 1365
foreign body in, *1495, (100) 1878
foreign body removed from urinary, (175) 87
function after labor and after gynecologic operations, 2092—ab
in chronic gonorrhea, 109 cases, (125) 1530
in tabes, study of, (107) 858
infected abdominal pregnancy with extension of long bones into, (125) 1140
irrigation of urethra and, outfit for, (99) 371
irrigation, quinin solution for, *505
irritability in women, (81) 858, (9) 1029
irritation of, from retroflexion of uterus, (133) 551
obstructions at outlet of urinary, (99) 1616
porous plaster and toxic symptoms in kidneys, urethra and, (58) 1278
resection of, clamps in, (80) 371, (123) 543
retroperitoneal abscess perforating into, (108) 1281
rupture of, (60) 1796, (121) 1879
rupture of, spontaneous, (74) 375
suppuration in fallopian tube perforating into, (45) 1197
syphilis of, (148) 1694
tumors, (34) 1527
tumors, contradictory incontinence of urine with, (70) 947
tumors, fulguration in, (94) 777, *1050
tumors, high frequency treatment in, (58) 371
tumors of urinary, (104) 85, *580
tumors, thermo-coagulation for, 6 cases, (119) 1367
ulcer in woman, rare type of, (41) 1795
BLASTOMYCOSIS, (16) 1940
coccidioidal granuloma and, differential study of, (29) 1613
superficial, (68) 1036
BLAUD'S pills, quality of, 1344—P
BLENNORRHEA, inclusion, trachoma bodies as etiologic factor in trachoma and, (13) 1940
BLEPHAROCHALASIS, 2 cases, (21) 82
BLEPHAROPLASTY to cover eyeball exposed 14 years, (134) 2021
BLIND, education of semiblind, (16) 183
BLIND soldiers, aid for, 161, 922, 1861
soldiers, industrial education of, 1597
BLINDNESS: See also Ophthalmia Neonatorum
BLINDNESS, cases of, (79) 858
color and color vision, tests for, (25) 372
ethmoidal operation followed by, (61) 2019
monocular, alternating, transient, ending in loss of vision, (12) 1940
night, among soldiers, (67) 1458
preventable, causes of, (127) 1453
prevention of, from standpoint of trachoma, gonorrhea and syphilis, (77) 618
snow, (105) 625
BLOOD, acidity of, influence of inhalation anesthesia on, (14) 615
agglutinins in, in cholera, (19) 1363
altitudes, moderate, and, 670—E
amino-acid content of cerebrospinal fluid and, in syphilitic and nonsyphilitic individuals, *126
amino-acid content of muscle and, influence of meat ingestion on, (80) 1876
amount of, in living body, apparatus to measure, (77) 549
antithrombin in, test for, (47) 1528
autoinjection of, (83) 703, (30) 1112
basophile granules in, after shrapnel wounds, (89) 864
basophil granules in, as sign of lead poisoning, (101) 1280
catalytic reactions of, (44) 467
cellular elements of, in skin diseases, (58) 775
changes after injection of typhoid bacilli in rabbits, (128) 1202
changes after muscular activity and during training, (1) 855
changes during epileptic seizure, (123) 94
changes in aqueous humor and, in methyl alcohol inhalation, (57) 1795
changes in, at high altitudes, (2) 1189
changes in children of European descent in tropical Australia, (15) 372
changes in tuberculosis, (98) 1194
characters, variability and interdependence, (18) 1363
cholesterin in, during pregnancy, (99) 865
clinical examination of, newer methods, (4) 1526
clotting in, from tuberculous lungs, inhibition of, (56) 782
coagulation after hemorrhage, 1768—E
coagulation, factors in, (68) 283
coagulation, technic for, and clinical importance of examination of conditions regarding, (90) 376
coagulation time, effect of hemorrhage on, (6) 856
constituents of, 596—E
content of, and absorption of sugar, (150) 627
corpuscles, red, in advanced lung tuberculosis, (133) 627
corpuscles, red, in urine of normal persons, (75) 476
corpuscles, red, nuclear particles in, following splenectomy, (21) 1612
corpuscles, red, number of, and percentage of hemoglobin, effect of work on, (27) 1795
corpuscles, red, of guinea pig, relationship to parasite of yellow fever, (30) 373
corpuscles, red, preservation of living, in vitro, 2163—ab
corpuscles, red, vital staining of, (150) 552, (157) 627
Corpuscles, White: See Leukocytes
count chamber, improved rulings for, (67) 375
count, differential, apparatus for recording, *584
count, improved technic, (60) 91, (98) 1274
count in pellagra, (11) 538
culture, suggestions as to, (104) 1274, (111) 1360
culture work, vacuum tube of Keidel in, *822
cyst, solitary, in kidney with hematuria, (144) 379
cyst, subperiosteal, of orbit simulating osteosarcoma, (150) 1944
BLOOD, derivation of white from red corpuscles in, in frog's mesentery, (91) 1367
diseases and blood, 2164—ab
diseases, functional diagnosis of, (90) 625
effect of heat on transforming and binding power of, (66) 1108
epinephrin in, at birth, (63) 1883
exercise and, 1501—E
flow, portal and hepatic and outflow from liver, (25) 368
forming cells in liver in congenital syphilis with reference to lymphocytes and plasma cells, (59) 375
H ion concentration in, determining variations in, 2162—ab
in chronic lead poisoning, (69) 1199
in dementia praecox with periodical fluctuations, (161) 627
in pernicious anemia, unusual condition of, 2162—ab
in starvation, 1081—E
infants', antibodies to cow's milk in, (105) 1460
injection of, in hemorrhage, *332
lymphocytosis in, as sign of constitutional disturbance in chronic gastro-intestinal disease, (82) 1622
microscopic examination of, in differential diagnosis of typhoid, (38) 1277
nitrogenous bodies in, of children, (29) 781
non-protein nitrogen and urea in, and phenolsulphonephthalein excretion in infants and children, 2094—ab
non-protein nitrogen in, estimation of, (14) 2096
non-protein nitrogen in, in experimental uranium nephritis and nitrogen metabolism, (30) 272
non-protein nitrogenous compounds in, in nephritis, with reference to creatinin and uric acid, (46) 1358
occult, dry benzidin test for, (34) 474
occult, hematein color test for, (57) 945
occult, in feces, improved test for, (36) 2102
of cholera hogs, attenuation of virus in, to prepare vaccine, (89) 696
oxygen and carbon dioxid in, in uremia, (75) 1884
parasites collected in Nigeria, (5) 372
parasites, method of transmitting, (65) 1358
peripheral, of kala-azar patients, examination of, (20) 621
physical-chemical processes in, diagnostic import, (63) 782
picture after typhoid and cholera vaccination, (82) 1949
picture and splenectomy, (34) 279
picture, aplastic type, aleukemia with, (91) 1690
picture in anemia, influence of infections on, (56) 375
picture, neutrophil, of Arneth, in children living in tropical Queensland, changes in, (13) 372
platelet and leukocyte count, proportional, (91) 625
platelets, extract of, experiences with, (56) 1619
platelets, extract of, in uncontrollable hemoptysis, (105) 704
pressure, abnormal, correction of, (127) 1
pressure and altitude, *1812
pressure and diphtheria toxin, (64) 782
pressure, arterial, diurnal variations in, (24) 1794
pressure changes, limits of safety in, (14) 1272
pressure, clinical significance of, (91) 1193
pressure, clinical significance of, and relation to longevity, (34) 467
pressure, contributions to clinical medicine from study of, 1938—ab
pressure during pregnancy, *393
pressure during vomiting, (14) 694
pressure, effect of thyroid extracts on, (15) 694
pressure elevators, drugs as, (38) 1687
Pressure, High: See also Hypertension
pressure, high, and general continuous flow bath, (110) 1275
pressure, high, and high frequency current, 850
pressure, high, antecedents of nervousness and, (145) 1879
pressure, high, arterial, (128) 276
pressure, high, intravenous injections in, dangers of, (73) 371

BLOOD pressure in children, estimation of, (11) **1686**
pressure in life insurance, (132) 1275, (57) 1795
pressure in nephritis, (147) **552**
pressure in pneumonia, **1103**—ab
pressure in pregnancy, (67) 2099
pressure in prognosis in severe obstetric hemorrhage, (16) **1532**
pressure in tuberculosis, (121) 372
pressure, increased, (36) 1192
pressure, present status of, (152) 276
pressure readings in examinations for life insurance, (87) 941
pressure variations, treatment, (102) 777
production and lipoids, (120) 1202
protective ferments of, study of, by Abderhalden method after transplantation of organs, (30) **1030**
ptosis test of physical fitness, **1990**—E
pumping forces outside of heart, (58) 1365
residual nitrogen in, as test for kidney functioning, (66) **1536, (81) 1622**
serum, antitryptic power of, (129) **94**
serum, cholesterin content of, in inherited syphilis, (95) 1367
serum, decanted, after severe hemorrhage and in hemophilia, 2 cases, (70) **1529**
serum, fresh human, arrest of hemorrhage in sepsis after injection of, (102) **704**
serum in alkaptonuria, **748**—E
serum, noncoagulable nitrogen coefficient of, in pregnancy and toxemias of pregnancy, significance of, (7) **1526**
serum, test of cerebrospinal fluid and, in syphilis of nervous system, (69) 857
smears, staining method for, malaria parasites and, combined, ***2131**
staining for lymph vessel tissues and, (56) 475
staining of, vital, technic of, **929**
sucking insects in Central America, (130) 867
sucking muscid larva, habits, life history and structure of, (57) 1615
sucking power of Brazilian bug, (82) 1803
sugar, clinical study of, (6) **2168**
sugar in, (122) **1039**
sugar in, Bang's test for, (79) 624, (22) **938**
sugar in, estimation of, simple accurate method, (75) **1452**
sugar in, guide in treatment of diabetes, (100) **1459**
sugar in, improved test for, (131) 1202
sugar in, in children, (6) 367
sugar in, in diabetes, (139) **1202**
sugar in, in eclampsia, (90) **1200**
sugar in, in health and disease, concentration of, by Bang's micromethod, (22) **938**
sugar in milk and, improved technic for test, (123) 1039
sugar in, quantitative test for, ***241**
sugar in, test of, (74) **695,** (55) 782
tetany from thickening of, (47) **547**
Transfusion: See Transfusion, Blood
treponema pallidum in, in congenital syphilis at autopsy, (5) 773
tubercle bacilli in, (42) **1113**
tubercle bacilli in, exceptionally, in chronic tuberculosis, (108) **1460**
tubercle bacilli in infants', (29) **1112**
tubercle bacilli in, test inoculation of guinea pigs for, (50) 1456
typhoid bacilli found less frequently in, after vaccination, (81) 1949
urea content of spinal fluid and, (77) 1876
uric acid content of children's, (67) 2104
uric acid content of, inhalation of carbon dioxid increases, (60) 475
uric acid in, colorimetric determination of, (84) **1877**
uric acid in, how does it exist, 2143—E
vascular tone and distribution of, in surgical shock, (17) **1527**
vessel, anastomosis of, lateral, and operation for arteriovenous aneurysm, (24) **1941**
vessel, anastomosis of, lateral, new method, **365**—ab
BLOOD vessel clamps of practical utility, (25) 615
vessel conditions in orthopedic cases, importance of, (14) 1611
vessel, congenital malformations of heart and, infectious origin of, (20) 780
vessel, disease of small, as studied with ophthalmoscope, (22) 1684
vessel disease, organic, gangrene without, (94) 179
vessel, gunshot wounds of, (50) 862
vessel, mesenteric, obstruction of, (99) 948
vessel, mesenteric, thrombosis of, (119) **1282**
vessel, repair of, by free grafts of fatty tissue, ***426**
vessel, submucous resection for obliterating, (44) 616
vessel, suture of, injured in war, (19) **472**
vessel, velamentous, fetal death from rupture of, (20) 1798
vessel, wounds of larger, (90) 549
vessel, wounds of, remarkable effects of, (89) 1367
viscosity of, and pulse in children, (15) 2170
volume, determining total blood plasma and, **2162**—ab
BLUE SPOT in Brazilian children, (22) 1617
on abdomen, (138) 952
BOARD of Censors, functions of, (110) 1943
BOARDS, HEALTH: See Health Boards of
BOCKHART'S impetigo, (59) **2024**
BODY, surface area of, measurement of, (5) **2095**
BOLUS ALBA: See Kaolin
BONE, abnormalities of, and nerve injuries, (115) 276
autotransplantation of, for nasal deformity due to syphilis, (44) 1795
bacteriologic examination of, from cadavers with view to transplanting, (115) 626
brace for extension in war wounds of long, (94) 92
brittle, blue sclerotics with, in children, (2) 1105
bullets in, Roentgen-ray localization of, (105) **949**
callus production after injury of, (34) 1112
cancellous lesions of, (28) **1030**
cancer, secondary to cancer of stomach, (12) 1617
cavities, filling after operations, (24) **473**
clamp, new, ***1753**
cyst, (67) **91**
cyst, benign, (105) **2020**
cyst, solitary, (122) 1202
defects, autogenous grafts in repair of, (76) 858
disease, congenital and acquired, (69) **2105**
diseases of, present status of, (118) 1282
electric motor in work on, (142) 1110
fat tissue as filling for cavities in, (133) **94**
fracture of long, (128) 1275
fracture of long, comminuted, due to gunshot wounds, extension in, (11) 778
fracture of long, in war, (76) 1115
fracture of long, treatment, (176) 87
fracture of long, wounds with, (98) 1038
fractured, apparatus for holding, ***2132**
fractured, in infants and children, fixation of, (22) **1527**
graft for Pott's disease and ununited fractures, (49) **541**
graft, histology of, (4) **81**
graft, homobone, in sarcoma of radius, (12) **2101**
graft in paralytic scoliosis, (7) 81
graft in surgery, (59) **940,** (6) 1105
graft, inlay, (31) 1451
graft, inlay, in fractures, joint tuberculosis and deformities, (60) 1615
graft, original uses of, (112) 1032
ivory for repair of, (69) **1036**
long, pressure in marrow cavity of, in dogs, (121) 1367
long, tardy deformed growth of, in child of 2½ with inherited syphilis, (141) 952
lunar, isolated disease of, from standpoint of industrial insurance, (46) 700
marrow metastases and anemia in stomach cancer, (19) 943
marrow, thyroid transplantation in, (68) **946**
BONE marrow, transplantation of, autoplastic experimental, (64) **946**
metastases or skeletal cancer, (39) **1614**
metastatic infections, acute surgical, of joints and, (113) 1032
necrosis of, due to syphilis and tuberculosis, ***211**
necrotic, as support, (42) **1535**
periosteal regeneration of, (100) **2020**
plate, Lane, dislocation of head of radius with fracture of ulna corrected by, (67) 1615
plating, external, (64) 1615
regeneration and repair, (103) 469
repair, ununited fractures with study of, (6) **81**
sarcoma, ossification in, (3) **779**
semilunar, dislocation of, (125) **470**
semilunar, dislocation of, with fracture of cuneiform, (45) 700
splint transplantation in recurrent spondylolisthesis with paralysis, ***24**
stumps, changes in, after amputations, (42) 700
supernumerary, of foot, Roentgen study of, (3) 692
surgery, misapplied, (91) 1529
surgery of joint and, modern, (104) 619
syphilis, congenital, (28) 1875
transplantation, (70) 1032, (32) **1191,** (28) 1684
transplantation (Albee method) for tuberculosis of spine, (8) 81, ***400**
transplantation for tuberculous spondylitis, modified technic for, (67) 623
transplantation in compound and comminuted fractures of tibia and fibula, (45) 1451
trauma of, and tetany, (67) 946
tuberculosis, (132) 1194
tuberculosis of joints and, calcium in, (62) 475
tuberculosis of joints and, etiology and pathology of, ***17**
tuberculosis of joints and, heliotherapy of, at seashore, (103) 188
tuberculosis of joints and, treatment, (62) **701**
tumor, giant cell, (126) 1361
vitality and periosteum, (20) 368
wounds of joints and, in war, (54) **1113**
BOOKS, medical, use of, in refutation and cross-examination of expert witnesses, **1356**—MI
scientific, improper use of, in cross-examination, **851**—MI
BORAX and boric acid, ***1242**
BOSTON Medical and Surgical Journal corrects untrue report of multiple births, **1589**—E
BOTTLE, baby, new, (98) 1109
poison containing, distinctive, **1161**—ab
solution, in operating rooms, device for holding, ***584**
BOWEL: See Intestine
BRACE, extension, for fractures, (77) **864**
extension, for long bones in war wounds, (94) 92
BRACHIAL artery, embolus of, arteriotomy for, (146) **952**
plexus, bilateral fibrosarcomatous degeneration of, in steer, (126) 867
plexus, blocking of, 110 cases, (61) **549**
plexus, osteoplastic exposure of, below clavicle, (38) 1456
plexus, reuniting, (53) 1031
BRADY, JAMES BUCHANAN, Urologic Institute, (52) 1876
BRAIN: See also Cerebellum; Cerebrum; Dura Mater; Hypophysis Cerebri; Pineal Gland; Skull
BRAIN abscess, (65) 695, (41) 1273
abscess after blocking trigeminal nerve for removal of teeth, (97) 1690
abscess, double frontal, **463**—ab
abscess, drain for, (114) **950**
abscess in paratyphoid, (24) 1880
abscess, ocular symptoms of sinus thrombosis of otitic origin and, (21) 857
abscess of frontal lobe, secondary to purulent frontal sinusitis, (108) 1616
abscess of otitic origin, (25) **540,** (106) 1943
amputation of important portion of, **1437**
autonomic reciprocal activities of viscera and, ***321**
BRAIN, cavity formation within medulla oblongata, ***988**
changes in cortex of, with general paralysis, (152) 627
concussion of, treatment of, (72) **1949**
cortex, lesions and anomalies of, in dementia praecox, topographic distribution of, (10) **937**
cranial aspect of, and inner surface of cranium, (14) 943
cyst of cerebellopontine angle of, operation for, (99) 179
cystic tumors of frontal lobes of, 4 cases, (137) 379
decompression operations in disorders of, value of, (122) 1194
decompression operations on, osteoplastic resection of skull in, (22) 545
drainage of lateral ventricle of, in cerebrospinal meningitis, (51) 1031
edema of, (70) 371
explorer, improved form of, ***2130**
growth of, in young children, effect of nutrition and diseases on, (78) 284
gunshot wounds, meningitis from extension to ventricles of suppuration following, (114) 2027
gunshot wounds of spinal cord and, (101) **949**
hemorrhage, (131) 1275
hemorrhage, lung complications of, (74) 1274
hemorrhage, ventricular, **1936**—ab in primitive man, (28) 1451
injury to, continuous sleep for 3½ years after, recovery, (77) 91
normal looking, in psychopathic subjects, (58) 274, (41) 616
physiology of, (66) **1689**
postnatal growth of, under experimental conditions, **1936**—ab
preservation of, improved technic for, (94) **1538**
prolapse of, flap-door incision and drainage to prevent, (116) 2027
prolapse of tissue, treatment of, (89) **625**
removal of right frontal lobe, in boy of 14 without apparent change in mind or character, (110) 286
sarcoma of meninges of, round cell, (98) 1796
sarcomatosis of spinal cord and, (164) 87
sclerosis of spinal cord and, eye symptoms in, (105) **1118**
transplant of tissue of rabbit, histologic changes in, (89) 1537
tumor, (93) 1878
tumor, continuous clonic spasm of left arm due to, (13) 938
tumor of third ventricle, ***1903**
tumor, pathology of, (24) 1939
tumor, results of operations for, ***189**
tumor, treatment of, (3) 1939
tumor, trigeminal disturbances from, aid in localization, (150) 2029
vascular lesions in optic nerves and, changes in visual fields result of ***1549**
wounds of, psychic deficiency after, symptoms of, (64) **1802**
wounds of spinal cord and, in war, (63) 1278
BRAZILIAN nematelminth worms, (108) 1952
BREAD making in Hungary, restrictions as to, **1257**
making in Italy, restrictions as to, **1257**
partial removal of restrictions to, **1926**
properties of, (77) 2025, (35) 2102
rice flour in manufacture of, **1777,** (49) **2024**
rye must be mixed with wheat flour in baking, in Germany, 66 war, digestibility of, (75) 1366, (69) 1689, (80) 1690
BREAST cancer, (150) 276, (127) **471, *707, (40) 1946**
cancer, aberrant tissue, primary, (141) **2029**
cancer and pregnancy, relations between, (42) **1197**
cancer, gelatinous, diagnostic sign of, ***1653**
cancer in man with healed miliary tuberculosis, (56) 617
cancer of uterus and, actinotherapy for, (97) 2027
cancer of uterus and, radiotherapy and intravenous chemotherapy in, (99) 2027
cancer, recurrent, limits of operability of, ***1749**

BREAST cancer, traumatic, legally established case of, (17) 88
chiroma, myeloid, of, (40) 1364
diseases of, treatment, (68) 371
tunnel, treatment of, (143) 86
Nipple: See Nipple
Nursing: See Infant, Breast Feeding
pathologic functioning of, (102) 1201
precancerous diseases and lesions in, (114) 85
pump, effective, (4) 1682
tuberculosis, 6 cases, (21) 1276
tumors, galvanocautery knife for excision of, for microscopic diagnosis, 2092—ab
BRICKLAYER'S rheumatism, 1182, 1349
BRILL'S DISEASE: See Typhus Fever
BRISKET DISEASE among cattle, 1185—ab
BRISTOL medical societies, (6) 698
BRITISH army, reintroduction of rum into, alleged responsibility of medical profession for, (6) 860
army, rum in, 1328—E
Medical Association, libel action against, 1927
Medical Association, perjury in libel action against, 756
Medical Association wins case against C. H. Stevens, 1994—E
Pharmacopeia, 1914, impressions of, (8) 698
soldiers, morbidity and mortality among, 921
BROAD LIGAMENT, double ureter simulating parovarian cyst in, right, (18) 1798
fibroma of, 2 cases, (42) 944
BROMID and opium treatment of epilepsy according to Flechsig, (111) 2028
BROMIDROSIS, glycerin in, (11) 88
BROMIN chloroform as substitute for tincture of iodin, (113) 949
in organic compounds in animals, (152) 380
BROMODERMA tuberosum in 9 months old infant following administration of calcium bromid, (113) 93
BRONCHIECTASIS, resection of thorax wall for tuberculosis and, (55) 862
BRONCHITIS, acute, 247—T
chronic, etiology of bronchial asthma and, 1104—ab
BRONCHOPNEUMONIA simulating croup, (25) 473
subacute, localized, (13) 856
BRONCHOSCOPE, foreign body in trachea extracted by, (15) 1945
in direct examination of larynx, trachea, bronchi and esophagus, (105) 1274
routine use of, in out-patient department, (111) 85
BRONCHOSCOPY in removal of foreign body in lung, new method, *1906
upper, for foreign body in infant 3 months old, *1654
with tracheotomy, (149) 87
BRONCHOTETANY, (75) 284
BRONCHUS, bronchoscope in direct examination of larynx, trachea, esophagus and, (105) 1274
foreign body in, (41) 1273
lymph-node, suppurating, perforating into esophagus, (62) 1198
roentgenography of lymph-node, (47) 1035
streptothrocosis of, recovery, (49) (945)
tuberculosis involving hip joint, lungs, intestines and lymph-node, (20) 1276
tuberculosis of lymph-node, followed by general tuberculosis, (16) 943
BRUCE'S micrococcus melitensis and its toxins, effect of, on peripheral and central nervous system, (50) 20
BUDWELL'S Emulsion of Cod Liver Oil, 684—P
BUENOS AIRES, sanitary works in, 2173—ab
BUFFALO General Hospital, surgical service at, (90) 1616
BUG, Brazilian, facultative blood-sucking power of, (82) 1803
BULLETS, action of different kinds on tissues, (90) 864, (75) 1115
division of vagus, hypoglossal and sympathetic nerves by, with formation of arteriovenous aneurysm of carotid, (18) 2100
dumdum, action of, (31) 1456
BULLETS, dumdum and regular, action of, on human body, (98) 625.
dumdum, wounds, (74) 1366
electric apparatus for locating, in tissues, (51) 1036
electromagnet in operative removal of scraps of shell and, (40) 1456
entering tissues may be deflected to progress sideways, (65) 186
explosive action of, 66, (54) 1456, (66) 1620
extraction of scraps of shells and, with roentgenoscopic table, (51) 2024
extraction of scraps of shell or, (46) 1688
high speed, do not cauterize, 1172
in bladder extracted through urethra, (44) 944
localization of, in tissues, (40) 546
localization of, method for, (7) 1616
localization of, Roentgen-ray, (2) 182, (71) 540, (49) 622, (105) 949, (39) 1456
localization of shell fragments and, (2) 471
missing aeroplane kills man on ground, (93) 549
pointed, action of, experimental research on, (33) 1456
pointed tip of, turned backward in cartridge, (17) 278
removed from pericardium, recovery, (79) 864
rifle, vagaries of, 1506—ab
Russian, (85) 284
suture treatment of path of, through limb, (31) 861
shrapnel, extraction of, from knee joint through vertical incision, (14) 1195
Wound: See also Wound, Gunshot
wrist watch driven into arm by, (75) 549
BUREAU of Clinical Information in New York, 1095—C
BURNHAM'S Soluble Iodine, 1673—P
BURNING of sanatorium, liability for loss of life in, 364—MI
BURNS, eye, from lime, 2158
oiled silk for skin wounds and, (25) 1456
Roentgen-ray, after gynecologic deep exposures, (72) 549
Roentgen-ray treatment of, (67) 274
severe, static dislocation of hip sequel to, (96) 1274
BURSA, semimembranous, hygroma of, (76) 375
BURSITIS, subacromial, (103) 543
subacromial, pathology and operative treatment, (10) 1106
subacromial, with production of lime in bursa, (7) 692
subcutanea malleoli extenus, (140) 181
BUTTER-FAT, nitrogen and phosphorus in, (17) 2096
BUTTERMILK for infant feeding, preparation of, (134) 1040
infants fed on, keratomalacia in, (105) 1804
BUYO cheek cancer, etiology of, *711

BOOK NOTICES

Abdominal Surgery, 534
Anatomy and Its Important Relation to the Development of Surgical Knowledge, Evolution of the Study of, 534
Anatomy of Domestic Animals, 1352
Anatomy of Human Skeleton, 766
Anesthetics; Their Use and Administration, 461
Animal Experimentation and Medical Progress, 268
Anoci-Association, 362
Auerbach, S., Die Chirurgischen Indikationen in der Nervenheilkunde, 2088
Anus and Rectum, Diseases of, 171
Autenrieth, W., Laboratory Manual for the Detection of Poisons and Powerful Drugs, 766
Backward Baby, 1352
Bacon, C. S., Obstetrical Nursing, 1269
Ballenger, W. L., Diseases of the Nose, Throat and Ear, Medical and Surgical, 931
Bennett, N. G., Science and Practice of Dental Surgery, 688
Bethlehem Hospital, The Story of, from Its Foundation in 1247, 1351
Billings, John Shaw: A Memoir, 1784
Bliss, A. R., Jr., Laboratory Manual of Qualitative Analysis for Students of Medicine, Dentistry and Pharmacy, 1444
Bockenheimer, Allgemeine Chirurgie, 363
Body and Its Defenses, 461
Bolton, J. S., Brain in Health and Disease, 1021
Braasch, W. F., Pyelography (Pyelo-Ureterography), 2160
Brain in Health and Disease, 1021
Bronchi, Lungs and Pleura, Diseases of, 1521
Brown, W. L., Physiological Principles in Treatment, 1184
Brunton, L., Therapeutics of the Circulation, 1521
Bulkley, L. D., Cancer, Its Cause and Treatment, 1444
Burgess, W., World's Social Evil, 268
Burghard, F. F., System of Operative Surgery, 689
Buxton, D. W., Anesthetics: Their Use and Administration, 461
Cabot, R. C., Differential Diagnosis Presented Through an Analysis of 317 Cases, 1098
California and the Far West, 171
Campbell, C. M., Focal Symptoms in General Paralysis, 1021
Cancer, Its Cause and Treatment, 1444
Cannon, W. B., Bodily Changes in Pain, Hunger, Fear and Rage, 1933
Chase, R. H., Mental Medicine and Nursing for Use in Training-Schools for Nurses and in Medical Classes and a Ready Reference for the General Practitioner, 851
Chemical Analysis, Qualitative, for Students of Medicine, Dentistry and Pharmacy, Laboratory Manual of, 1444
Chemical Physiology, Directions for a Practical Course in, 2160
Child Training as an Exact Science, 1352
Children, Pocket Formulary for Treatment of Disease in, 689
Chirurgie, Allgemeine, 363
Chirurgische Operationslehre für Studierende und Aerzte, 2011
Chirurgischen Indikationen in der Nervenheilkunde, Die, 2088
Choyce, C. C., System of Surgery, 75
Circulation, Therapeutics of, 1521
Colloids, Chemistry of, and Some Technical Applications, 1933
Color Vision, Introduction to Study of, 1785
Commoner Diseases, Their Causes and Effects, 1352
Comstock, S., Mothercraft, 2088
Cornet, G., Acute General Miliary Tuberculosis, 534
Craig, C. F., Prophylaxis of Malaria with Special Reference to the Military Service, 1604
Cramer, W., Directions for a Practical Course in Chemical Physiology, 2160
Crile, G. W., and Lower, W. E., Anoci-Association, 362
Cumpston, J. H. L., History of Smallpox in Australia, 1788-1908, 1784
Cystoscopy and Urethroscopy for General Practitioners, 1679
Delinquent, Individual, 1445
Dental Surgery, Science and Practice of, 688
Despard, L. L., Text-Book of Massage and Remedial Gymnastics, 1269
Dewey, M., Practical Orthodontia, 75
Diagnosis, Clinical, 1785
Diagnosis, Differential, Presented Through an Analysis of 317 Cases, 1098
Dictionary, Medical, for Nurses, 171
Digest of Comments on the Pharmacopeia of the United States of America (Eighth Decennial Revision) and on the National Formulary (Third Revision) for the Year Ending Dec. 31, 1913, 688
Doncaster, L., Determination of Sex, 2011
Dumbell, K. E. M., California and the Far West, 171
Ear, Nose and Throat, Medical and Surgical Diseases of, 931
Ear, Nose, Throat and Eye, 75
Edema and Nephritis, 1268
Electricity, Röntgen Rays and Radium, 1679
Embryology, Laboratory Manual and Text-Book of, 1351
Entomology, Handbook of Medical, 1352
Evolution of Disease, 2160
Eye, Nose, Throat and Ear, 75
Factory, Modern, 1933
Fäzes des Menschen im Normalen und Krankhaften Zustande mit besonderer Berücksichtigung der Klinischen Untersuchungsmethoden, 1869
Fear and Conventionality, 461
Fear, Pain, Hunger and Rage, Bodily Changes in, 1933
Fevers, Handbook of, 1351
Fischer, M. H., Edema and Nephritis, 1268
Fitzwilliams, D. C. L., Nursing Manual for Nurses and Nursing Orderlies, 2088
Flatau, E., Neurologische Schemata für die Aerztliche Praxis, 1521
Flies in Relation to Disease, 1445
Food Products, 268
Forrest, J., Eye, Nose, Throat and Ear, 75
Frank, L. F., Medical History of Milwaukee, 1351
Fraser, J., Tuberculosis of Bones and Joints in Children, 74
Frazer, J. E., Anatomy of the Human Skeleton, 766
Freyberger, L., Pocket Formulary for the Treatment of Disease in Children, 689
Gaertner, G., Reducing Weight Comfortably, 461
Gage, S. H., and Gage, H. P., Optic Projection, 268
Garrison, F. H., John Shaw Billings: A Memoir, 1784
Gillmore, M. M., Meatless Cookery, 689
Gonorrhea and Its Complications in the Male and Female, 1446
Good Health, 461
Greene, C. W., Handbook of Pharmacology, 1021
Healy, W., The Individual Delinquent, 1445
Heart in Early Life, 1021
Heitzmann, L., Urinary Analysis and Diagnosis by Microscopical and Chemical Examination, 1869
Hemenway, H. B., Legal Principles of Public Health Administration, 1679
Hewitt, C. G., House-Fly (Musca Domestica Linn), 1352
Hindle, E., Flies in Relation to Disease, 1445
House-Fly (Musca Domestica Linn), 1352
Houses for Mining Towns, 1679
Human Derelicts, 75
Hunger, Pain, Fear and Rage, Bodily Changes in, 1933
Immunity, Infection and Specific Therapy with Special Reference to Immunologic Technic, Practical Text-Book of, 1098
Infant, Care and Feeding of, 2088
Infant Feeding, Its Principles and Practice, 1352
Infant Mortality, Transactions of the Fifth Annual Meeting of the American Association for Study and Prevention of, 1678
Infection, Immunity and Specific Therapy with Special Reference to Immunologic Technic, Practical Text-Book of, 1098
Intestinale, La Stase chronique, 74
Jacoby, G. W., Child Training as an Exact Science, 1352
Jewett, F. G., Body and Its Defenses, 461
Jewett, F. G., Good Health, 461
Jores, L., Commoner Diseases, Their Causes and Effects, 1352
Keen, W. W., Animal Experimentation and Medical Progress, 268
Kelynack, T. N., Human Derelicts, 75
Kinderkrankheiten, Kurzes Lehrbuch der, 1185
Knowles, F. C., Diseases of the Skin, Including the Acute Eruptive Fevers, 170
Kolmer, J. A., Practical Text-Book of Infection with Special Reference to Immunologic Technic, 1098
La Motte, E. N., Tuberculosis Nurse, 1869
Langstein, L., and Meyer, L. F., Säuglingsernährung und Säuglingsstoffwechsel, 932
Lead Poisoning from the Industrial, Medical and Social Points of View, 1785
Lehndorff, H., Kurzes Lehrbuch der Kinderkrankheiten, 1185
Leusden, F. P., Chirurgische Operationslehre für Studierende und Aerzte, 2011

Lewis, B., and Mark, E. G., Cystoscopy and Urethroscopy for General Practitioners, 1679
Lockhart-Mummery, P., Diseases of the Rectum and Anus, 171
Lord, F. T., Diseases of the Bronchi, Lungs and Pleura, 1521
Lungs, Bronchi and Pleura, Diseases of, 1521
Lyman, G. D., Care and Feeding of the Infant, 2088
McClure, J. C., Handbook of Fevers, 1351
McKee, J. H., and Wells, W. H., Practical Pediatrics, 363
Malaria, Prophylaxis of, with Special Reference to the Military Service, 1604
Mallory, F. B., and Wright, J. H., Pathological Technique, 1933
Massage and Remedial Gymnastics, Text-Book of, 1269
Mears, J. E., Evolution of Study of Anatomy and Its Important Relation to the Development of Surgical Knowledge, 534
Meatless Cookery, 689
Mechano-Therapeutics in General Practice, 851
Mental Medicine and Nursing for Use in Training Schools for Nurses and in Medical Classes and a Ready Reference for the General Practitioner, 851
Millard, C. K., Vaccination Question in the Light of Modern Experience, 612
Milwaukee, Medical History of, 1351
Mothercraft, 2088
Motter, M. G., and Wilbert, M. I., Digest of Comments on Pharmacopeia of United States of America (Eighth Decennial Revision) and on National Formulary (Third Revision) for Year Ending Dec. 31, 1915, 688
Muirhead, W. A., Practical Tropical Sanitation, 1352
Nash, J. T. C., Evolution of Disease, 2160
Nephritis and Edema, 1268
Nervenheilkunde, Chirurgischen Indikationen in der, 2088
Nervous System and Its Conservation, 534
Nervousness and Worry or the Science of Self-Mastery, 268
Neueren Arzneimittel und die Pharmakologischen Grundlagen ihrer Anwendung in der Ärztlichen Praxis, 1185
Neurologische Schemata für die Ärztlichen Praxis, 1521
New and Nonofficial Remedies, 1915, 932
Nose, Throat and Ear, Diseases of, Medical and Surgical, 931
Nose, Throat, Ear and Eye, 75
Nurses, Nursing Manual for Nursing Orderlies and, 2088
Obesity, Treatment of, 461
Obstetrical Nursing, 1269
Occupational Diseases, Their Causation, Symptoms, Treatment and Prevention, 362
O'Donoghue, E. G., Story of Bethlehem Hospital from Its Foundation in 1247, 1351
Oliver, T., Lead Poisoning from Industrial, Medical and Social Points of View, 1785
Operative Surgery, 461
Optic Projection, 268
Orthodontia, Practical, 75
Paget, S., Pasteur and After Pasteur, 362
Pain, Hunger, Fear and Rage, Bodily Changes in, 1933
Paralysis, Focal Symptoms in General, 1021
Parsons, E. C., Fear and Conventionality, 461
Parsons, J. H., Introduction to Study of Color Vision, 1785
Pasteur and After Pasteur, 362
Pathological Technique, 1933
Pediatrics, Practical, 363
Pharmacology, Handbook of, 1021
Pharmazeutischen Institut der Universität Berlin, Arbeiten aus dem, 851
Pleura, Lungs and Bronchi, Diseases of, 1521
Poisons and Powerful Drugs, Laboratory Manual for Detection of, 766
Pope, A. E., Medical Dictionary for Nurses, 171
Prentiss, C. W., Laboratory Manual and Text-Book of Embryology, 1351
Price, G. M., The Modern Factory, 1933
Psychopathic Diseases, Symptomatology, Psychognosis and Diagnosis of, 612
Public Health Administration, Legal Principles of, 1679
Purvis, J. E., and Hodgson, T. R., Chemical Examination of Water, Sewage, Foods and Other Substances, 1445
Pyelography (Pyelo-Ureterography), 2160
Radium, Electricity and Röntgen Rays, Medical, 1679
Rectum and Anus, Diseases of, 171
Reference Handbook of Medical Sciences, 1098
Riley, W. A., and Johnson, O. A., Handbook of Medical Entomology, 1352
Rollier, A., La Cure de Soliel, 1604
Röntgen Rays, Electricity and Radium, Medical, 1679
Rovsing, T., Abdominal Surgery, 534
Sabre and Scalpel, 765
Sadler, W. S., Worry and Nervousness or the Science of Self-Mastery, 268
Säuglingsernährung und Säuglingsstoffwechsel, 932
Schmidt, A., and Strasburger, J., Die Fäzes des Menschen im Normalen und Krankhaften Zustande mit besondere Berücksichtigung der Klinischen Untersuchungsmethoden, 1869
School Hygiene, Transactions of the Fourth International Congress on, 1869
Sequeira, J. H., Diseases of the Skin, 1521
Sewage, Water, Foods and Other Substances, Chemical Examination of, 1445
Sex, Determination of, 2011
Sheffield, H. B., Backward Baby, 1352
Sherman, H. C., Food Products, 268
Sidis, B., Symptomatology, Psychognosis, and Diagnosis of Psychopathic Diseases, 612
Sisson, S., Anatomy of Domestic Animals, 1352
Skin, Diseases of, 1521
Skin, Diseases of, Including Acute Eruptive Fevers, 170
Skutetzky, A., and Starkenstein, E., Die Neueren Arzneimittel und die Pharmakologischen Grundlagen Ihrer Anwendung in der Aerztlichen Praxis, 1185
Smallpox in Australia, History of, 1788-1908, 1784
Social Evil, World's, 268
Soleil, La Cure de, 1604
Sorrel, E., La Stase Intestinale Chronique, 74
Squire's Pocket Companion to the British Pharmacopeia, 1185
Stiles, P. G., Nervous System and Its Conservation, 534
Stitt, E. R., Diagnostics and Treatment of Tropical Diseases, 689
Stockton, C. G., Diseases of the Stomach and Their Relation to Other Diseases, 1678
Stomach, Diseases of, and Their Relation to Other Diseases, 1678
Surgery, System of, 75
Surgery, System of Operative, 689
Sutherland, G. A., Heart in Early Life, 1021
de Swietochowski, G., Mechano-Therapeutics in General Practice, 851
Taylor, E. H., Operative Surgery, 461
Taylor, W. W., The Chemistry of Colloids and Some Technical Applications, 1933
Thompson, W. G., Occupational Diseases: Their Causation, Symptoms, Treatment and Prevention, 362
Thoms, H., Arbeiten aus dem Pharmazeutischen Institut der Universität Berlin, 851
Throat, Nose and Ear, Diseases of, Medical and Surgical, 931
Throat, Nose, Ear and Eye, 75
Todd, J. C., Clinical Diagnosis, 1785
Tousey, S., Medical Electricity, Röntgen Rays and Radium, 1679
Treatment, Physiological Principles in, 1184
Tropical Diseases, Diagnostics and Treatment of, 689
Tropical Sanitation, Practical, 1352
Tuberculosis, Acute General Miliary, 534
Tuberculosis Nurse, 1869
Tuberculosis of Bones and Joints in Children, 74
Urethroscopy and Cystoscopy for General Practitioners, 1679
Urinary Analysis and Diagnosis by Microscopical and Chemical Examination, 1869
Vaccination Question in the Light of Modern Experience, 612
Wachenheim, F. L., Infant Feeding, Its Principles and Practice, 1352
Water, Sewage, Foods and Other Substances, Chemical Examination of, 1445
Watson, D., Gonorrhea and Its Complications in the Male and Female, 1446
White, J. H., Houses for Mining Towns, 1679
Worry and Nervousness, or the Science of Self-Mastery, 268
Wyeth, J. A., With Sabre and Scalpel, 765

C

CABOT, Bernard Shaw and medical profession, 762—C
CADAVER, human, bacteria cultivated from, significance of, (80) 696
CAFFEIN and strychnin as cardiovascular stimulants in acute infectious diseases, (19) 1191
and theobromin, *1432
clinical studies in, (25) 272
effect of strychnin, atropin, camphor and, on respiration, (34) 273
CALCIFICATION, metastatic, (27) 1612
CALCIUM and parathyroid tetany, 441—E
bromid, bromoderma tuberosum in 9 months old infant following administration of, (113) 93
chlorid, effect of, on hemolysis, (40) 622
chlorid for tics, (59) 186
chlorid in hay-fever, (41) 781
elimination of, abnormal, in children's urine, (56) 701
hypochlorite disinfection of milk pans and bottles, 1019
hypochlorite, sterilization of drinking water by, in field, (100) 1109
in bone and joint tuberculosis, (62) 475
in glandular tuberculosis, (156) 380
in spasmophilia, (77) 284
phosphate and phosphorized cod liver oil in spasmophilia, (91) 703
phosphate in rachitis, (90) 703
salts, action of, (7) 1275
salts, insoluble, intramuscular injection of, (101) 1367
tuberculosis due to a deficiency of, (119) 85
CALCIUREA, 2155—P
CALCULUS: See also under Organs
CALCULUS, formation of, around unabsorbable material used in suturing intestine mucosa, (29) 1106
xanthin, case of, (102) 469
CALIFORNIA medical news, 445, 598, 750, 961, 1252, 1333, 1589, 1770, 1920, 1996
state board January reciprocity report, 1783
state board July report, 533
state board June report, 169
CALLUS production after injury of bones, (54) 1112
CALOMEL as a laxative, *1987
use and abuse, (87) 1943
CALORIMETER, respiration, for study of disease, (1) 2094
respiration, of Russell Sage Institute of Pathology in Bellevue Hospital, (2) 2094
CALORIMETRY, animal, (46) 616, (80-82) 1876
clinical, (1-8) 2094
clinical, in the United States, 2069—E
CAMMIDGE REACTION: See Reaction, Cammidge
CAMP, construction, model, at Elephant Butte, 1166—E
of prisoners, hygiene in, (49) 781
Salisbury Plain, cerebrospinal meningitis and diphtheria in, 353
sanitation of (9) 1275
CAMPHOR, *432
and phenol in infectious processes, (120) 93
CAMPHOR bromid, convulsions following administration of, (119) 1202
effect of strychnin, caffein, atropin and, on respiration, (34) 273
in wounds, (95) 1459
poisoning, epileptiform seizures from, (151) 1694
synthetic, action of, (63) 1689
synthetic, in therapeutics, (98) 1459
synthetic, ranks with natural, (55) 1801
CAMPHORATED OIL: See Oil, Camphorated
CANADA medical news, 160, 352, 447, 522, 601, 674, 754, 840, 1007, 1086, 1170, 1255, 1337, 1437, 1510, 1593, 1858, 1924, 2000, 2078
CANADIAN Medical Association meeting canceled, 1255
CANAL ZONE: See Panama
CANCER: See also Tumor
CANCER and involvement of nerves, 1167—E
autolysates of tissues in, history of method of, (93) 188
bladder, 1790—ab
bladder, radium in, (70) 857
bone, cancer of stomach with secondary, (12) 1617
breast, (150) 276, (127) 471, *707, (40) 1946
breast, aberrant tissue, primary, (141) 2029
breast and pregnancy, relation between, (42) 1197
breast, gelatinous, diagnostic sign of, *1653
breast, in man with healed miliary tuberculosis, (56) 617
breast, precancerous diseases and lesions in, (114) 85
breast, recurrent, limits of operability of, *1749
breast, traumatic, legally established case of, (17) 88
cell, properties of, (79) 476
cell (Zehbe's) found in human cancer and mixed tumor, 1610—ab
cheek, buyo, etiology of, *711
clinic, plea for, (119) 1453
colloidal nitrogen of urine in diagnosis of, (123) 626
control of, (94) 542
deodorized by jet of ozone, (59) 1456
diagnosis of, early, (157) 1944
diagnosis of obscure cases, (16) 88
diagnosis of, Van Slyke amino-nitrogen determination in, *1559
diet and, (45) 1876
esophagus, intrathoracal, surgery of, (27) 279
esophagus, resection for, (105) 858, (145) 952, (20) 1450, (100) 1804
etiology of, *968
family, (60) 1114
fuel and, in France, local incidence of, (13) 545
gastro-intestinal, deep roentgenotherapy of, (84) 864
genital organs, female, mesothorium in, (80) 187
growth of, influence of anterior lobe of pituitary on, (67) 1108
heredity and, 2156—C
immunizing effects of subcutaneous and intraperitoneal administration of tumor cells against, in mice, (54) 1359
in Vermont, 2000
in young, (99) 1796
increase of, 1776, 2153
infectious nature of, report of research demonstrating, (45) 774
inheritability of spontaneous, in mice, (54) 1451, 1610—ab
inheritance of, 1326—E
inoperable, goat serum in, (3) 698
inoperable, treatment of, (125) 1879
intestine, (129) 942
intestine, diagnosis of, (62) 695
kidney, associated with kidney stone, (18) 1684
laity and, (98) 619, (53) 1192
larynx, intrinsic, results of operation (laryngofissure) for, (11) 272
liver, in children, primary, (11) 1526
liver, primary, in sheep, (32) 1034
liver, primary, operation for recurrence 7 years after primary operation, *1301
mediastinum, metastasis of, symptoms of, (134) 952
medical aspects of, (101) 1878
metaplasia of tissues in, 4 cases, (99) 1538

CANCER, mortality of tuberculosis and, in Prussia in 1913, **1598**
mouse, growth of normal, and of mouse cancer with experimentally increased virulence, (83) **84**
natural history of, (61) 2099
ovary, in child of eleven, ***1577**
penis, blunders in diagnosing, (49) 1619
penis, operative treatment, (141) 180
precancerous lesions, early treatment of, (129) 1194
precancerous state, (116) 180
prevalence of, in Switzerland in relation to soil and water, (24) 279
problem, (13) **615**
prostate, **367**—ab, (128) **1110**
pylorus, old obstruction in **left** coronary artery with organized infarct of heart wall and aneurysm, (12) 545
radiotherapy, (85) **1537**, (90) 1803
radium and, (86) 549
radium and roentgenotherapy, (29) 279
rectum, pneumoperitoneum following resection of, evacuation of gas and pelvic abscess, (21) **545**
rectum, radium in, (95) **1538**
rectum, 2 stage operation for, (25) 1450
Research, American Association for, **1525**—ab
research, experimental, present status of, (61) 623
research in Germany, appropriations for, **1256**
roentgenotherapy and, (68) 941
roentgenotherapy and electrothermic coagulation in, (159) 180
roentgenotherapy and operative treatment of, (120) **1282**
septic complications in syphilis, tuberculosis and, (68) 1274, (168) **1878**
serodiagnosis, (165) **182**, (87) 188, (59) **282**, (66) **283**, (41) 1451
skeletal, or bone metastases, (39) **1614**
Skin: See also Epithelioma
skin, (121) 1453
skin, prickle-cell and basal-cell, ***958**
spread of, modes of, (92) 188
stomach, ***2031**
stomach and duodenum, roentgenology in differentiating between ulcer and, (8) 271
stomach, diagnosis and treatment, (94) **1943**
stomach, diagnostic worth of laboratory data in, (46) **774**
stomach, early diagnosis of, (47) 774, (48) 1192, **1788**—ab
stomach, familial, (35) **1534**
stomach, histogenesis of, (1) **1449**
stomach, identity of Boas-Oppler bacillus in, **1004**—E
stomach, in boy of nine, removal of, (70) **1621**
stomach, prognosis of, (82) 1032
stomach, pyloric end, radical operation for, (139) **180**
stomach, relationship of stomach ulcer and, (2) **271**
stomach, roentgenoscopy of, (29) 177, (85) 947, (63) 1198
stomach, symptoms and signs, 712 cases, ***643**
stomach ulcer and, occult hemorrhage with, (57) **1688**
stomach ulcer and, roentgenoscopy of duodenal ulcer and, (52) 617
stomach ulcer simultaneous with, 2 cases, (73) 623
stomach, with bone marrow metastases and anemia, (19) 943
stomach, with secondary cancer of bone, (12) **1617**
sulphur reaction in, urine with, (70) **476**
superficial lesions tending to, (103) **949**
thorium X in, (122) 866
tonsil, (52) 371
trauma and origin of, (120) **1368**
treatment of, pessimism concerning, (157) 698
tumor cells in, subcutaneous and intraperitoneal administration of, immunizing effects of, in mice, **1610**—ab
urethra, female, plastic work, **2015**—ab
uterus, (63) 84
uterus and breast, actinotherapy for, (97) 2027
uterus and breast, radiotherapy and intravenous chemotherapy in (99) 2027
CANCER, uterus and rectum, radium in, results of 23 cases, (144) **1111**
uterus cervix, bilateral duplication of ureters complicating opertion for, (26) 1034
uterus cervix, radiotherapy or operation (106) **625**
uterus, cure of, by curetting for diagnosis, **466**—ab, (133) **1111**
uterus, diagnosis, early, (94) 1453
uterus, heteroplasia in, (2) 466
uterus, in woman of twenty-four, **1102**—ab
uterus, mesothorium in, (123) 1202
uterus, Percy cautery in, (103) 2020
uterus, radium and roentgenotherapy in, (135) **1693**
uterus, radium in, (93) **1200**, (14) 1276, (72) 1360
uterus, roentgenotherapy of inoperable, (121) 1282
uterus, surgical treatment, (123) 619
uterus, types of, **2092**—ab
vulva, radium in, (25) 861
CANNULA and needle for blood transfusion and intravenous injections, (95) 1915
CANTHARIDIN, 53, **685**
CANTON Daily News rejects all patent medicine advertisements, **1866**—P
CAPITALIZATION of scientific names, **1349**
CARAMEL in diet in diabetes, (51) 374, (40) **1113**
CARBOHYDRATE, amount of antineuritic foods compared with, effect of, **1077**—E
cures in diabetes mellitus, study of, **1873**—ab
metabolism, clinical aspects of, (51) 541
metabolism, studies in, (34, 35) 1358
reduction of, in infantile facial eczema, (125) **1943**
CARBON dioxid and oxygen in blood in uremia, (75) **1884**
dioxid, inhalation of, increases uric acid content of blood in dogs, (60) 475
dioxid snow in condylomas, 10 cases, (121) 626
dioxid tension in alveolar air, apparatus for determining, (76) 1279
disulphid, sterilization of clothing with fumes of, (98) 1950
monoxid poisoning, (58) 178
monoxid poisoning in colliery disasters, smoke complicating, (13) 1362
tetrachlorid non-inflammable substitute for benzin, (92) 1037
tetrachlorid, properties of, **1267**, **1520**
CARCINOMA: See Cancer
CARDIOGRAM of right auricle, (85) 784
CARDIOPTOSIS, (120) 866
CARDIORENAL DISEASE: See Heart and Kidney Diseases
CARDIOSPASM, (78) 1685
with dilatation, (115) 1878
CARDIOVASCULAR apparatus, measurement of pulse energy in study of sphygmobolometry, (67) 1199
cases, hypertensive, management of, (90) 941
disease among soldiers, (110) 551
disease, recent work in, (92) 618
load, comparative value of systolic pressure and, in pneumonia and chronic myocarditis, (89) 1453
CARDUI, WINE OF, 744—E, **761**—P, **1014**—P
Louisiana legislature endorses campaign against, **2085**—P
CARIES, dental, neutralizing power of saliva in relation to, (2) 855
CARLISLE Medical Club, reporting to, patient as slow pay, 269—MI
CARNIVOROUS and herbivorous types in man, (41) 1031
CAROTID artery, aneurysm of external, simulating tumor in tonsil region, (62) 548
artery, arteriovenous aneurysm of, with division of vagus, hypoglossal and sympathetic nerves by bullet, (18) 2100
artery, common, end-to-end suture of, after gunshot aneurysm, (93) **285**
artery, common, ligation of, after gunshot wound, (88) **1950**
artery, common, ligation of, for pulsating exophthalmos, (107) **1281**
CAROTID artery, high bifurcation of common, (39) 1030
gland, physiologic importance of, (58) **1619**
gland, tumors of, (68) 375, (139) 1361, **2162**—ab
pulse, normal study of, (114) 1952
CARRIERS, cholera, in German army, (74) 1536
diphtheria bacilli, (25) **781**, (45) 1614, (86) **1623**
diphtheria, epidemic checked through isolation of, (43) 857
kaolin in treatment of bacteria, **1991**—E
malaria, (142) **1194**
meningitis, found, **841**
tetanus, **1850**—E
typhoid, chicken as, (85) **84**, **915**—E
typhoid, later history of, ***2051**
typhoid, thymol and charcoal for, (67) **1689**
CASE history and examination of cases, plea for more careful, (48) **1689**
system of teaching roentgenology, (38) 694
CASEIN and cream in diabetes mellitus, (5) **1275**
and salts, condition of, in milk, (78) **941**
calcium milk, Stoeltzner's, in summer diarrheas of infants and children, (32) **82**
digestion of, in infant's stomach, (139) 952
of cow's milk, permeability of infant intestine for, (67) **476**
CAST, interrupted, for compound fractures, ***585**
plaster, adjustable extension, (39) 2102
plaster, improved extension, (83) 2025
walking, (77) **1949**
CASTELLANI appointed to chair of tropical diseases in Italy, **2000**
method of preparing typhoid-paratyphoid mixed vaccine, (79) 1802
CASTOR-OIL, emulsions of liquid paraffin and, in chronic dyspepsia in children, (15) **943**
CASTRATION: See also Sterilization
CASTRATION, history of, (142) 868
CATALASE in urine in health and disease, (3) **466**
CATARACT among soldiers in active army, postponing operation for, (37) 1277
congenital, (128) 942, (117) 1033, (99) 1453
extraction, delayed healing of wound in, treatment, (131) **180**, (133) 697
extraction, expulsive retrochoroidal hemorrhage following, (149) **1944**
extraction in capsule, (101) 1274
extraction in capsule after subluxation with capsule forceps, 100 cases, (26) 616
extraction, intracapsular, (22) 275, (57) 774
extraction, intracapsular, loss of vitreous in, prevention, (28) 616
extraction, intracapsular method, adoption of, by oculists of America, (155) 697
extraction, intracapsular, visual results, 12 cases, (134) 697
extraction, iridectomy preliminary to, technic of, (101) 1453
extraction, pathology of corneal section and complications in (29) 939
furnace workers', **1186**—ab
in India, progress in treatment of, (11) 2169
non-traumatic acquired, of young, (149) 1195
operation, new pair of lid retractors for, (145) 1797
pyogenic infection cause of, (75) 618
radiant energy and, **668**—E, 1264—C, **1603**—C
senile, medical treatment of (125) 626
senile, treatment of, by general practitioner, (66) 84
senile, treatment of earlier stages, (5) 87
Smith's operation, intracapsular, advantages and disadvantages of, (65) 84, (132) 697, (15) 1940
traumatic, of wounded soldiers, 1089
CATARRH, acute tubotympanic, (155) 544
exudative, of middle ear, (110) 179
intestinal, (69) 371
nasal, acute, 55—T
CATARRH, vaccines in, utility of, (21) 368
CATGUT, sterile, (51) 281
CATHARSIS, abuse of, in abdominal conditions, (147) 276
after operation for appendicitis, (120) 942
CATHETER, retention, varnish to fasten, (125) 1692
wax-tipped, in diagnosis of ureteral calculus in male, practical method of applying, ***2129**
CATHETERIZATION, ureteral, and kindey function, (127) 1033
CATION and anion, nomenclature, **1348**
CAUTERIZATION of mucous membranes, particularly of nasal mucosa, protest, (14) 272
CAUTERY, Percy, in cancer of uterus, (103) **2020**
CAVERNOUS sinus, anatomic and clinical relations of sphenoid sinus to 3d, 4th, 5th, 6th and vidian nerves and, (27) 1273
CECUM, dilated, (121) 1275
diverticulum of, traumatic, following appendectomy, (160) **181**
lymphangioma of, cavernous and cystic, ***719**
mobile and coloptosis, intestine stasis due to, surgical treatment, (84) 1109
resection of ascending colon and, and separation of mesentery, (90) 1537
selenomonas in, of rodent, (121) 1202
stasis, appendicitis as cause of, (11) 1767
stasis of colon and, plastic operation for, (12) **177**
CELERINA, **607**—E
CELLS, animal and plant, internal cytoplasm of, studies on permeability of, (21) 1794
as factor in infectious diseases, ***649**
permeability of, altered by anesthetics, (62) **1365**
CELLULITIS, orbital, removal of eyes in, (15) 1195
CELLULOID plate for closing gap in skull not durable, (128) **2028**
tube in finger injuries, ***1647**
CENSORS, board of, functions of, (110) 1943
CEPHAELINE, **2067**
CEPHALOMETRY and pelvimetry among Philippine women, (108) 1529, **1854**—E
CERCOMONA hominis, infection with, (159) 86
CEREAL breakfast foods, composition, digestibility and relative value, (106) 1194
in milk modification, (78) 1032
CEREBELLOPONTILE angle, access to tumors of, improved technic for, (122) **1368**
CEREBELLUM: See also Brain
CEREBELLUM abscess, diagnosis and treatment, (29) 943
abscess, differential diagnosis of cerebellar syphilis and, (77) 469
abscess in child, not from ear trouble, (2) **1686**
angioma of, (57) **2098**
comparative physiology of, (67) 1279
lesions of cerebrum and, mechanism of labyrinthine nystagmus and modifications by, (5) 538
surgery, (137) 1944
syndrome, (56) **2098**
tremor, chronic progressive, (5) **942**
tumor, life prolonged by intratracheal insufflation in, (132) 379
tumor, ocular symptoms and flaccid paralysis with, (132) 1202
CEREBROSPINAL FLUID, amino-acid content of blood and, of syphilitic and non-syphilitic individuals, ***126**
arsenic in, ***1384**
cell count in, (57) 623
children's, tryptophan test of, (107) **286**
crystals in, from case of septic meningitis, (12) **1455**
cytology of, (39) 1451
escape of, from ear, in fracture at base of skull, (10) **1449**
in diagnosis, (106) **949**
in diagnosis of syphilis of central nervous system, (104) 543
in early syphilis of nervous system, ***1465**

CEREBROSPINAL FLUID in health and disease, 934—ab, *1119
in pneumonia, *1227
in syphilis, when to examine, (30) 2102
in tetanus, non-toxicity of, (48) 622
Lange colloidal gold test in, (48) 83, (2) 367, (16) 1683
Lange, colloidal gold test in, in psychiatry, (81) 1529, (9) 1940
Lange gold sol test in, obtained post mortem, (28) 1191
meningococci in, sugar enrichment to detect, (52) 2103
proteid content of, (60) 83
reducing substance in, 2166—ab
secretion of, and glandular extracts, (9) 1190
secretion of, effect of pituitary extract on, (13) 693
studies of, (13) 693
test for, (140) 1797
test of blood serum and, in syphilis of nervous system, (69) 857
urea content of ash and, in feces with atrophy of infants, (26) 781
urea in human, 1854—E, (77) 1876
CEREBRUM: See also Brain
CEREBRUM abscess, roentgenoscopy of, (37) 621
Hemorrhage: See Brain, Hemorrhage
lesions of cerebellum and, mechanism of labyrinthine nystagmus and modifications by, (5) 538
surgery, (16) 615, (50) 2019
traumatic lesions, operative treatment, (1) 2100
tumor, diagnosis of, (1) 1939
DE CERENVILLE, E., death of 1776
CERTIFICATE, action in regard to filing, must be included, 1185—MI
medical, exploitation of medical profession in respect to, (16) 2022
CESAREAN SECTION, (158, 159) 87, (148) 697, (113) 778, (18) 1272, (141) 1275
abdominal, following interposition operation for uterus prolapse, complicated by placenta praevia, (88) 1032
abdominal, for contracted pelvis after rupture of membranes, (88) 1032
abdominal, in Lying-In Hospital, (12) 466, (50) 1273
abdominal, local anesthesia in, (119) 858
extraperitoneal, *196, (140) 1110, (60) 1273
in achondroplasia, (89) 1796
in eclampsia, (160) 87
indications for, (149) 697
rupture of pregnant uterus through cicatrix of former, 3 cases, (25) 1798
tardy, (30) 781
vaginal, (31) 1799
vaginal, for eclampsia, (21) 1272
CHANCRE of finger, *582
soft, plus ignored syphilis, (81) 864
CHAPARRO amargosa in amebic dysentery, (23) 1273
CHARCOAL and kaolin in diarrhea, (99) 1459
and milk sugar in mercury poisoning, 550—ab
and thymol for typhoid bacillus carriers, (67) 1689
animal, adsorption by, (73) 1690
animal, and peptic digestion, (69) 1883
animal, in research on vaccines, (94) 1950
cotton in dressing wounds, 1671, (57) 2104
in cholera, (56) 1882
iodized, in infected wounds, (55) 1198
prehistoric use of sugar and, for dressing wounds, (78) 375
pulverized wood, in prophylaxis and treatment of diarrhea in field, (38) 1618
CHARCOT'S DISEASE of spine, (11) 81
CHARITABLE institutions, liability of, for negligence, middle course taken on, 1100—MI
CHATTANOOGA Medicine Company, 761—P
CHEEK cancer, buyo, etiology of, *711
CHELIDONIN, effects of, on smooth muscles in intact and surviving organs, (53) 1107
CHEMICAL wares, manufacture of, 933
CHEMOTHERAPY, (88) 1458
and tumors, *1283, 1611—ab
CHEMOTHERAPY and vaccine therapy for wounds in war, (33) 1800
intravenous, and radiotherapy in uterus and breast cancer, (99) 2027
of lung tuberculosis, (35) 184
CHENOPODIUM, OIL of, toxicity of, (8) 1189
CHEST: See Thorax
CHICAGO, Juvenile Psychopathic Institute of, 71—C
Municipal Tuberculosis Sanitarium, provision for infants in, 72—C
plan for municipal control of tuberculosis, (38) 774
Ventilation Commission, report of, 1681—ab
CHICKEN as typhoid carrier, (85) 84, 915—E
CHICKENPOX, 908—T
diagnosis of smallpox and, 1181—C
experiences with variola and, 1180—C
vaccination in, (79) 284, (53) 700, 1003—E
CHILBLAINS, treatment of, (54) 186
CHILD Federation Bulletin service, 1932—ab
injured, negligent care by parents and insanitary condition of home of, 767—MI
labor conference, San Francisco, 1256
labor, measuring cost of, (21) 177
welfare, advance in town planning and, within Empire, (115) 469
welfare exhibits, state, 257
CHILDBEARING: See Labor
CHILDREN, abdomen, acute, in, (31) 1527
abdomen, acute, surgical diseases of, (87) 1615
abdomen in infants and, care of, (101) 275
acidosis in, (33) 1941
acidosis with auto-intoxication in infants and, (3) 367
ameba colitis in child of five, (31) 1875
anemia, aplastic, hemolytic, (77) 1037
anemia, severe, (68) 91
anus prolapse in, treatment of, (9) 278
appendicitis in, (56) 1036 (97) 1194, (109) 1616
appendicitis in, surgery of, (82) 1360
asystole from acute dilatation of heart in, (24) 1617
atypical, studies of, (69) 2019
bacillus coli in urine in, treatment of, (7) 698
backward, (109) 1878
blood conditions in, of European descent in tropical Australia, (15) 372
blood of, nitrogenous bodies in, (29) 781
blood pressure estimation in, (11) 1686
blood transfusion in infants and, (50) 1615
blue sclerotics with brittle bones in, (2) 1105
blue spot in Brazilian, (22) 1617
brain, growth of, effect of nutrition and diseases on, (78) 284
cancer of liver in, primary, (11) 1526
cancer of ovary in child of eleven, *1577
cancer of stomach in boy of nine, removal of, (70) 1621
cerebellum abscess in, not from ear trouble, (2) 1686
cerebrospinal epidemic meningitis in, serotherapy of, (122) 619
cerebrospinal fluid in, tryptophan test of, (107) 286
coliuria in, treatment of, (7) 698
conjunctiva, chronic affections of, causes and treatment, (105) 275, (15) 540
conservation of, in our schools, (106) 371
convulsions in, electrical demonstration of spasmophilia in initial, (89) 703
cystitis in, 2173—ab
deformities in, neglect of, (156) 698
dermographism in, (83) 92
diarrhea in, summer, (87) 2020
diarrheas of infants and, Stoeltzner's casein calcium milk in, (32) 82
digestion disturbances of older, treatment of, (58) 1948
diphtheria antitoxin, intravenous injection of, (5) 367
CHILDREN, diplococcus sepsis in, fatal, (118) 1202
diseases of, medical treatment, present status of, (87) 1458
diverticulum of urinary bladder, congenital, in infants and, (126) 1943
ductless gland irregularities in backward, (130) 276
dyspepsia, chronic, emulsions of liquid paraffin and castor-oil in, (15) 943
eczema in, dietetics of, (32) 1613
energy metabolism of ten hospital, (3) 773
enuresis in, (76) 179
epileptic, (63) 618
epistaxis in, (48) 281
facial paralysis in, (37) 1613
fat atrophy, symmetrical progressive, in, Husler's work on, (117) 93
feces of, bacillus aerogenes capsulatus in, (49) 617
feebleminded, Binet-Simon intelligence tests for, (122) 1460
feebleminded, psychiatric analysis in six, (91) 1117
fibromyxosarcoma in mesentery of boy of two, (99) 1367
fistula in anus in, (2) 778
food intoxications of, (115) 372
fracture of bones in infants and, fixation of, (22) 1527
fracture of radius and greenstick fracture of ulna, (37) 1030
Friedmann's tuberculosis treatment in, (75) 187
gangrene in, symmetrical, (27) 473
goiter, exophthalmic, in girl of seven, (28) 781
goiter in, (121) 469
heart, enlarged, total symphysis of, (65) 1883
heart failure in child of 6 with atheroma of right pulmonary artery and dilatation of right ventricle, (2) 1195
heart, rupture of, (10) 1454
hernia, inguinal, treatment of, (27) 781
hormones in diseases of, (21) 1112
Hospital of Vienna, (30) 82
hygienic management of, (85) 2020
hypernephroma in child, (31) 82
infection of trachea and epiglottis in, tracheotomy, recovery, (15) 272
insanity in, (3) 937
intestine obstruction due to sigmoid volvulus in child, *1744
intussusception in, (135) 86
jaundice in, (52) 1947
joint conditions in, prophylaxis of, (112) 1616
joint syphilis in, (10) 1611
kala-azar in Chinese, observations on, (29) 1798
kidney cysts in child of three, (39) 781
kidney function test in infants and older, (108) 93
Lange colloidal gold reaction in cerebrospinal fluid of infants and, (2) 367
larynx stenosis in, treatment of, (87) 92
lead poisoning among, in north Queensland, (14) 372
love and hatred of, for parents, (109) 93
luetin test unreliable for, (68) 2104
lung conditions in, roentgenoscopy of, (6) 1682
lupus in, 2 cases, (13) 1686
management of, between 1 and 2 years of age, (30) 1875
medical supervision of older, importance of, (11) 773, (125) 942
Montessori education for, with defective vision, (1) 1944
mucosa and accessory sinuses in, inflammatory affections of, (30) 1358
myelitis in child, (4) 1944
nervous disturbances in, (38) 184
neutrophil blood picture of Arneth in, living in tropical Queensland, (13) 372
night terrors in, cause and cure, (18) 540
nonprotein nitrogen and urea of blood, and phenolsulphonephthalein excretion of infants and, 2094—ab
nose obstruction in, (88) 858
otitis media, acute suppurative, treatment of (117) 1797
paralysis in, diagnosis of, (87) 777
CHILDREN, paralysis, traumatic bulbar, in child of five, (87) 703
parapneumonic empyema in, 2 cases, (36) 1613
paratyphoid bacillus with severe jaundice in boy of five, (98) 1367
pellagra in, (37) 1364
pellagra in, in Montgomery, Ala., (117) 543
physique and stamina of, estimation of, for school purposes, (34) 621
plethysmographic examination of normal and sick, (116) 93
pleural effusions in, roentgenology of, (74) 187
pneumonia, acute, treatment of, (59) 1948
pneumonia, epidemiology of, 2167—ab
pneumonia, lobar, diagnosis and treatment of, sources of error in, (31) 1613
poliomyelitis, acute anterior, (143) 552
protection of, in war, 1010
pulse and viscosity of blood in, (15) 2170
pulse energy in adults and, (89) 1690
pyelitis in, (41) 1527
rectum polyp in, (122) 1943
rectum prolapse in, percutaneous rectopexy for, (82) 1690
rheumatism, (74) 179
rheumatism, chronic articular, (81) 1037
rheumatism, chronic, bee poison in, (54) 1535
ringworm of nails, scalp and trunk in feebleminded girl of twelve, (140) 868
salvarsan in therapeutics of, (143) 697
sanitation and, in South Carolina, (146) 276
sarcoma, lymphoblastic, in boy of three, (34) 781
sarcoma of both ovaries in child of three, (124) 1361
school, conservation of, (106) 371
School, Medical Inspection of: See Schools, Medical Inspection of
school, vaccination of, power of local bodies to require, 612—MI
school, vocal organs in, (156) 1694
splenomegaly in, (87) 1117
strabismus, (108) 942
strabismus, convergent, invisible bifocals for, (119) 276
street work and, 877—ab
sugar-content of blood in, (6) 367
suspension laryngoscopy in, (110) 85
syphilis in, (144) 697
syphilis in adults and, luetin skin reaction in, (139) 552
syphilis, inherited, with tardy deformed growth of long bones in child of two, (141) 952
tetany of parathyroid origin in, pathogenesis of, (125) 378
thorax, anomalous, Roentgen findings in, (70) 2105
thorax of, areas of dulness in, (96) 1367
tonsillectomy in, (18) 1106
tonsils and adenoids in, immunity produced by, (107) 179
transfusion of citrated blood in, syringe method for, (97) 1109
tuberculin skin reactions, positive in, (45) 895—ab
tuberculin skin test in, of nontuberculous parentage, (8) 773
tuberculosis, (120) 372, (101) 619
tuberculosis, and school, (149) 380
tuberculosis bacilli infection of, human and bovine type simultaneously, (33) 2097
tuberculosis, bronchial glands, diagnosis of, (34) 90
tuberculosis camp for, Bamford Hills, (43) 370
tuberculosis, knee-joint, (5) 1611
tuberculosis, knee, prognosis and treatment, *1387
tuberculosis, lung, and tuberculosis in adults, comparison of signs and symptoms, (41) 1687
tuberculosis, lung, in adults and, early diagnosis of, (29) 1941
tuberculosis, lung, incipient, (1) 620, (32) 1196
tuberculosis, lung incipient, in school children, (12) 183
tuberculosis, pathologic anatomy of, (49) 1113

CHILDREN, tuberculosis, prophylaxis of, by removal from infected environment, (24) 183
tuberculosis sanatorium for, Detroit, 360—C
tuberculosis, secondary infections in, (66) 1883
tuberculous, pseudomeningitis in, 2 cases, (87) 2026
typhoid in infants and, high calorie diet in, (5) 1682
typhoid vaccination in, (151) 276
umbilical colic recurring in, (34) 700
umbilical colic, recurring, historical discussion of, (86) 92
uric acid in blood, (67) 2104
urinary calculus in child, (23) 2100
urinary tract in, bacteriology of, (13) 1454
urine of, abnormal elimination of calcium in, (56) 701
urine of, diastatic reaction of, (115) 93
urine of, elimination of iodin in, (53) 1535
urine of, lipoid substances in, (49) 185
vulvovaginitis due to gonorrhea in little girls, curability of, (141) 868
ward for, in Rostock hospital, 8 years of, (33) 781
CHILLING in traumatic epilepsy, (76) 1458
CHINA, grant for medical college in, from Rockefeller Foundation, 1170
health conditions in, 1354—ab
Hunan-Yale Medical School and Hospital in Changsha, 1676—C
medical college for Canton, (53) 1685
medical conditions in, need of improvement of, as revealed by Rockefeller Commission, 1163—E
medical education in, 920, *1385, 1427—E, (50) 1685
Medical Missionary Association of, work of, (52) 1685
medicine in, (10) 2168
Rockefeller Foundation enters, 1086
Rockefeller fund for medical mission in, 1256
Surgeon-General of, a Harvard graduate, 754
surgical and medical aid needed in, (49) 1685
syphilis in, *1383
CHINESE, German medical school for, at Shanghi, (85) 864
physicians, advent of, into California, (31) 774
CHIONIA, 1178—P
CHIROPODY, regulation of practice of, 364—ab
CHIROPRACTICE, (24) 1684
CHLORAL and antitetanus serum in tetanus, (42) 1277
and phenol in tetanus, 1266
intravenous serum and, in tetanus, (28) 1618
CHLORID, effect of sodium bicarbonate on excretion of milk sugar injected intravenously and, (45) 90
metabolic influence of, on dermatoses, (31) 2018
retention, edema and acidosis, *325
CHLORIN content of drinking water, 152—E
sterilization of water by, (10) 1945
CHLORINATED lime in prophylaxis of tetanus, (80) 703
CHLOROFORM, administration of ether and, by vapor method, apparatus for, *824
and ether anesthesia, *904, (81) 1943
anesthesia, (28) 177
diet and nephritis caused by potassium chromate, uranium nitrate or, (32) 369
liver lesions due to phosphorus, alcohol and, influence of diet on, (31) 369
necrosis of liver, experimental, (50) 1451
poisoning and liver glycogen, resistance of pups to, (68) 775
poisoning, delayed, (10) 277
CHLOROMA, myeloid, case of, (124) 1202
myeloid, of breasts, (40) 1364
CHLOROSIS, pathogenesis and symptoms, (80) 864
CHOKED DISK, influence of decompressive trephining on, (63) 623
CHOLECYSTECTOMY, technic of, (25) 1107
CHOLECYSTGASTROSTOMY, (112) 1453
CHOLECYSTITIS, (47) 541
etiology and experimental production of, 1524—ab
infection cause of, (50) 774
CHOLELITHIASIS: See also Gall Bladder Calculus
CHOLELITHIASIS and pregnancy, (62) 1114
chemistry of stomach with, (59) 1689
early operation, (52) 1942
experimental study of, (37) 781
prodromal symptoms of, (80) 1685
CHOLERA, (55) 475
agglutinins in blood in, (19) 1363
and cholera-like vibrios in tissues of cholera patients, simultaneous occurrence of, (26) 621
Asiatic, alkalies in, 1915—E
Asiatic, diagnosis at necropsy, (156) 87
Asiatic, in Manila in 1914, clinical observations on, *1148
camp, (20) 473
carriers in German army, (74) 1536
causes of, as understood in 1849, two letters on, (134) 1033
charcoal in, (56) 1882
emetin in, (14) 861
epidemiology and prophylaxis of, (129) 1692
epinephrin in, (45) 547
hemolytic action of Indian strains of, and cholera-like vibrios, (27) 621
hog, attenuation of virus in blood of, to prepare vaccine, (89) 696
in Austria, 161
in prison camp, 163
infantum, (33) 1684
laboratory tests for, (21) 2171
prophylaxis and treatment, (125) 551
salt infusion in, (112) 551
sequelae in, interesting, (27) 1276
serum, antihog, vacuum method of drawing, (46) 2096
Switzerland quarantines against, 161
typhus, typhoid and dysentery, war diseases, (19) 88
vaccination, (71) 186, (95) 1200
vaccination, blood picture after, (82) 1949
vaccination, efficacy of, (72) 1536
vaccination, phlegmons at point of, (89) 1037
vibrio, vitality of, in Manila waters, (106) 1529
virus, variations in growth and virulence of, (142) 627
war and, (15) 1617
CHOLESTERIN antigens, serodiagnosis of syphilis with, (85) 1615
cellular reactions induced by local deposits of, (28) 1034
experimental deposits of, (46) 1364
in blood during pregnancy, (99) 865
in blood serum in inherited syphilis, (95) 1367
in development of giant-cell tumors in tendons and joints, (77) 947
precipitation of, in bile, (144) 952
type of degeneration of lipoids, histochemical basis for, (116) 1952
CHOLESTERINEMIA and Wassermann reaction, *1969
CHOLESTERINIZED antigens, clinical interpretation of Wassermann reaction with reference to, (11) 1106
CHOLESTEROL metabolism of hen's egg during incubation, (10) 2095
subcutaneous absorption and quantitative estimation of, (67) 775
CHOLIN, injected, distribution in body of, (40) 474
CHOLOLOGUES, *2064
CHONDRECTOMY for emphysema of lung, (163) 627
CHONDRODYSTROPHIA: See Achondroplasia
CHONDROMA: See Enchondroma
CHOREA, (10) 1617, (23) 2022
chronic progressive, (9) 937
etiology of, in pregnancy, (98) 1201
in pregnancy, (98) 1201, (83) 1803
mollis with muscular atrophy, (66) 857
voice sign in, technic of elicitation, (6) 773
CHORIO-EPITHELIOMA: See Decidnoma Malignum
CHOROID, scleral puncture for postoperative separation of, (95) 838
CHRISTIAN SCIENCE cures, (113) 1109
CHRISTIAN SCIENCE healers, licensing of, Puck on, 1353—ab
CHROMAFFIN, physiology of, (32) 546
CHRYSAROBIN, biochemical properties of, (59) 775
germicidal activity of, and other medicaments used in psoriasis, (71) 618
CHURCH and science in 15th century, (128) 1039
CHYLOUS and chyliform effusions, (111) 1039
CICATRIX, false keloids in, prevention of, (20) 1357
of former cesarean section, rupture of pregnant uterus through, (25) 1798
radium treatment of, (65) 2024
tension from, ulnar nerve trouble due to, (16) 1357
tissue, nerves embedded in, (52) 1036
CICUTOXIN, chemistry of, 1769—E
CIGARETTES, drugs and chemicals in, 1186—ab
CINCHONA derivatives, (23) 621
CINCINNATI, health work in, (32-49) 2019
CINEMATOGRAPH: See Moving Pictures
CIRCULATION, coronary, (53) 90
disturbances of, in acute gastrointestinal disturbances in infants, (26) 473
effusions in, (118) 286
freezing injuries due to impeded, (47) 945
influence of suction on, (80) 1115
Perthes' compressor to arrest, modification of, (72) 2105
rate, determination of, in man, at rest and at work, (28) 1795
reflex effects of alcohol on, *898
reversal of, in lower extremity, *873
symposium on, 1938—ab
CIRRHOSIS, LIVER: See Liver, Cirrhosis
CISTERNINO, A., honored, 523
CITARIN, 685—P
CITIES, abnormal increase of, and rural depopulation, effects on public health and natural prosperity from, (33) 694
CITRATES, oxalates and tartrates, influence of, on isolated heart, (16) 694
CITRIC salts in congestive dysmenorrhea, *733
CLAIRVOYANTS, practice of medicine by, 535—MI
CLAMP, blood vessel, of practical utility, (25) 615
bone, new, *1753
retaining, for two-piece transfusion tube, *1580
CLASSIFICATION, logical, of medical literature, (62) 2099
CLAVICLE, dislocation of inner end of, complete, (14) 1361
forward dislocation of, (119) 93
fracture of, oblique, malpractice in treatment of, 1785—MI
CLAY eaters, kaolin, and clay-containing areas, 2157—C
CLIMATE and distribution of plague, 1162—E
of eastern Nicaragua and Honduras, health and death rate in, (26) 1875
of Reno, Nevada, compared with other resorts, (61) 1615
CLIMACTERIC: See Menopause
CLINICAL Information, Bureau of, in New York, 1095—C
CLINICS, European, (105) 85, (186) 87, (5) 466
European, loss of, (39) 370
eye and ear, gleanings from principal European, (85) 1109
foreign, surgical notes from year's service in, (140) 942
rectal, in London, (108) 619
school, (145) 544
surgical, problem of, and clinic worker, (93) 1616
CLIP for holding films during development and drying in Roentgen ray work, (27) 1030
CLITORIS, subcutaneous rupture of, from fall, with large hematoma, (93) 1117
CLOCK dials on anesthesia chart, *242
CLOTHING, sterilization of, with fumes of carbon disulphid, (98) 1950
CLUB-FINGERS, simple, secondary hypertrophic osteo-arthropathy and, (9) 2017
CLUBFOOT: See Talipes
COAL mine fatalities, 1831—ab, 2144—E
COCAIN as local anesthetic, *1318
habit, (93) 1367, (110) 1685
habit, frequency of, 1271—ab
COCCYGODYNIA, causes and treatment, (43) 273
COCKROACHES, (11) 183, (28) 372
ants and bees, possibilities of distribution of infection by, 1662—E
COD LIVER Extract, Wampole's Perfected and Tasteless Preparation of, 1262—P
Oil Compound, Hagee's Cordial Extract of, 1262—P
Oil Emulsion, Budwell's, 684—P
oil, nutrient value of cod liver oil cordials and, *638
oil, oilless, 667—E
oil, phosphorized, and calcium phosphate in spasmophilia, (91) 703
CODEIN, dose of, for cough, 1349
COENEN, medal for, 676
COFFEE, amblyopia, (102) 1453
COKE industry, accidents in, 336—ab
COLCHICUM in acute gout, (126) 706
COLCHI-SAL refused recognition by Council, 1016—P
COLD as tonic, 1069—ab
bites and frost-bites, 679
local injuries from, (106) 1039
therapeutic use of, and climatic treatment of tuberculosis, *1045
transient, action of, on tissues, (111) 1201
COLDS: See also Rhinitis
COLDS, treatment of, 54—T, 149—T
COLECTOMY for arthritis, (10) 2100
for Hirschsprung's disease, (9) 2101
for intestine stasis, (26) 372
operative technic of ileocolostomy and (5) 2100
COLEY mixed toxins in inoperable sarcoma, efficiency of, (45) 1031, (47) 1107, (31) 1191, (49) 1273
COLIC, umbilical, recurring, in children, (34) 700
COLIFYELITIS, (55) 774
COLITIS, acute, hemorrhagic, without dysentery bacilli, (99) 92
acute ulcerative, (45) 178
amebic, in child of five, (31) 1875
and intestine toxemia in chronic diseases, (40) 857
chronic, ulcerative, with polyps, (10) 2017
mucous, (112) 180, (36) 939
mucous, 2 cases with symptoms of, (49) 274
serous, lesion in, *1905
ulcerative, (70) 283
COLIURIA in children, treatment of, (7) 698
COLLARGOL, effects of, in pyelography, *128
intra-uterine injection of, and roentgenoscopy in gynecology, (127) 1361
COLLEGES, American, recognized by the London royal colleges, 601
medical, classification of, 1025—ab
medical, entrance requirement to, evils of equivalent certificate as, (116) 778
medical, for Canton, China, (53) 1685
medical low-grade, and prospective medical students, 1428—E
medical, low-grade, and public, 1429—E
medical, non-recognition of, 1412
medical, psychiatry in, (55) 1031
medical, recognition of, 1415
COLLOIDAL gold in intravenous treatment of typhoid, 42 cases, (37) 546
gold in wounds in war, (40) 861
gold reaction, Lange, on cerebrospinal fluid in infants and children, (2) 367
gold test in spinal fluid, general paralysis and mental diseases, (81) 1529, (9) 1840
gold test, Lange, in cerebrospinal fluids, 135 cases, (48) 83
iodin and serotherapy in tetanus, (23) 1496
iron in determination of lactose in milk, (32) 1358
manganese, action of, on resisting powers, (118) 378
metals contraindicated in typhoid, (43) 622
metals, distribution of, in tissues, after intravenous injection as revealed by ultramicroscope, (80) 1280
nitrogen of urine in diagnosis of cancer, (123) 626
silver, germicidal action of, experiments on, (22) 183
silver with lecithin in malignant tumors, (79) 696

COLLOIDAL solutions in shock, intravenous injection of, *721
COLLOSOLS of silver and mercury, bactericidal action of, (8, 9) 620
COLOBOMA of iris, bilateral, complete bilateral irideremia in child whose father has, (107) 1453
total, of optic nerve entrances, (25) 82
COLOCOLOSTOMY, (33) 1030
COLON, abnormalities, (12) 1105
anastalsis and surgical therapy of, (4) 271
congenital dilatation, (45) 1031, (33) 1875
congenital dilatation of, colectomy for, (9) 2101
foreign bodies in, multiple, (21) 2100
infected, surgical therapy, 1788—ab
inversion of, longitudinal, short circuiting operation in, (13) 127
reconstruction of, based on surgical physiology, (32) 1030
resection of cecum and ascending, and separation of mesentery, with recovery, (90) 1537
roentgenoscopy of, (37) 1527, (1) 1616
sigmoid, strictures of, extraperitoneal operation in, (66) 2099
spasm, etiology and treatment, (63) 857
stasis, (75) 1360
stasis, clinical aspects of, (30) 1106
stasis of cecum and, plastic operation for, (12) 177
surgical physiology of, 1872—ab
COLOPTOSIS and cecum mobile, intestine stasis due to, surgical treatment, (84) 1109
COLOR test for amino-acid a-nitrogen, (36) 1358
test for citric acid, (145) 1694
test for uric acid in blood, (84) 1877
test for uric acid in urine, (61) 782, (85) 1877
test in differentiation of human and cows' milk, (22) 540
vision and tests for color blindness, (25) 372
COLORADO medical news, 350, 916 1082
state board April report, 2159
state board October report, 266
COLORIMETER for use in phenolsulphonephthalein test for kidney function, *1737
COLOSTOMY, iliac, in inoperable rectovaginal fistula with stricture of rectum, (119) 1616
COLOSTRUM in nutrition of newborn infant, importance of, (38) 474
unripe secretion of insufficient mammary gland, (85) 703
COLPORRHAPHY, anterior, button suture in, (119) 2021
COLUMBUS and Vesallius, the age of discoverers, 248—E
COMA, diabetic, form of, not due to acetone bodies, (137) 1879
relative frequency of, with reference to uremia, *1041
COMBRETUM sundiacum in morphinism, 1349
COMMISSION of conservation of vision, report of, (118) 1275
COMPLEMENT BINDING: See Serodiagnosis
COMPLEMENT FIXATION: See Serodiagnosis
COMPRESSES kept automatically moist, (126) 94
CONCEPTION: See Fecundation
CONDYLOMAS, carbon dioxid snow in, 10 cases, (121) 626
CONESSIN and holarrhenin alkaloids of holarrhena congolensis, action of, (32) 540
CONGRESS on Local Anesthesia, meeting of, 352
CONJUNCTIVA affections in children, chronic, causes and treatment, (15) 540
bulbar, tuberculosis of, (24) 82
chronic affections of, in children, causes and treatment, (105) 275
lymphoma and lymphosarcoma of, (32) 1795
melanosis of, (113) 469
CONJUNCTIVITIS, acute, bacillus tularense, (35) 1795
acute, trephine operation for glaucoma and infection from, (23) 82
Morax-Axenfeld, specific treatment of, (104) 1529
squirrel plague, in man, (66) 468
CONNECTICUT eclectic November report, 1097
homeopathic March report, 1520
homeopathic November report, 611
medical news, 1004, 1082, 1921
CONNECTICUT state board March report, 2088
state board November report, 688
CONNELLAN-KING diplococcus infections of throat, (65) 2019
CONRADI'S and Gins' methods for differentiating diphtheria bacilli not reliable, (79) 2025
CONSCIOUSNESS, perversions of, in mental diseases, (105) 942
CONSERVATION, human, (102) 1796
medical, (90) 2020
of middle aged, (60) 1942
CONSTIPATION: See also Obstipation
CONSTIPATION, chronic, causes, (59) 547
diet, treatment of, (92) 376
from lead poisoning, hormonal in, (89) 1458
from standpoint of proctologist, (141) 1879
ileosigmoidostomy for intestine stasis and, 4 cases, (8) 2100
in nervous disorders, (142) 1879
in relation to various diseases, (70) 1360
in women, (143) 1879
CONSTRUCTION camp, model, at Elephant Butte, 1166—E
CONSUMPTION: See Tuberculosis, Lung
CONTAGION and disinfection, (148) 276
CONTAGIOUS DISEASES and vital statistics, importance of collecting information concerning, 154—E
aural conditions following, (74) 469
dangers of handling food by persons with, (26) 1527
in smaller municipalities, supervision of, (18) 466
measures against, 1928
railroad, equipment for prophylaxis of, 1927
wards, prophylaxis in, suggestions for, (57) 1457
CONTRACT PRACTICE: See Practice, Contract
CONTRACTION, Dupuytren's, (3) 1033
CONTRATOXIN No. 4, Mehnario, injections of, and opsonins in blood serum of tuberculosis patients, (10) 2169
CONTROLLER, signal-magnet, (72) 1942
CONVERGENCE, insufficiency of, diagnosis and treatment, (121) 276
CONVERSE treatment for epilepsy, 1441—P
CONVULSIONS, 1791—ab
following administration of camphor bromid, (19) 1402
in new-born infant, (45) 857
psychogenic, (74) 2019
COOLIDGE Roentgen tube, (119) 1460
tube in measuring Roentgen ray, (37) 694
tube, penetrating power of Roentgen rays from, (25) 1687
COOPER'S New Discovery, 1930—P
COPPER salts in tuberculosis in guinea-pigs, (188) 949
salts, inhibiting influence of, on growth of tubercle bacillus, (44) 474
salts not effectual in tuberculosis, (126) 551
salvarsan in syphilis and lupus, (95) 1038
sulphate, *2065
CORNEA, iodin in diseases of, (111) 371
opacities of, acquired, symmetric, unusual type, (20) 82
pigmentation of, bilateral, (113) 1281
pneumococcus ulceration of, (105) 1453, (21) 2022
section, pathology of, and complications in cataract extraction, (29) 939
shape of posterior surface of human, (144) 627
ulcer, (38) 616
ulcer, complication and sequelae, (41) 541
ulcer, following hat pin injury, *659
CORNET, PROF., death of 1515
CORONARY artery, action of opium alkaloids on coronary circulation and, *1489
circulation of monkey, influence of epinephrin on, (46) 1528
pressure, variations in, and relaxation rate of ventricles, (14) 1526
CORONER, duty of, in Alaska, 763
reform in New York, 157—E
CORPUS CALLOSUM, lesion in, motor apraxia from, (111) 866
primary degeneration of, due to alcohol, (106) 1951
puncture of, with reference to value as decompressive measure, (73) 1274
CORPUS LUTEUM and menstruation, (42) 374
production, early stages and abortive forms of, (40) 374
CORSETS, ptosis and sacro-iliac strain, (40) 1614
CORTEZO, CARLOS M., honored, 1008
CORYNEBACTERIUM hodgkini, complement-fixation studies with, in Hodgkin's disease, *1134
lymphomatosis granulomatosae, acute lymphatic leukemia with, *1630
COSMETICS, lead neuritis from *1573
lead poisoning from, *814
COTTONSEED and olive oils, 265
COUGH, 246—P, (65) 1193
codein for, dose of, 1349
Remedy, Dead Shot, contains amyl acetate mixture, 1348
COUNTY hospital, what, how and why of, (61) 274
medical society, (151) 1879
COXA VARA, *219
adolescentium traumatica, *216
COXALGIC pelvis, (16) 1798
CRANIAL nerves, surgery of, for headache and neuroses, (107) 1685
CRANIOPAGUS, sympodia and acephalus, rare fetal teratisms, (136) 1110
CRANIUM, inner surface of, and cranial aspect of brain, (14) 943
Macewen's sign in diagnosing changes in intracranial pressure, 2167—ab
murmurs, 66 cases, (134) 94
sex functions and intracranial diseases, (129) 697
surgery, hemostatic safety pin for, (137) 1361
syphilis of spine and, (73) 542
telangiectasis, intracranial, 1936—ab
CREAM and casein in diabetes mellitus, (5) 1275
line of milk, effect of pasteurization on, 2173—ab
CREATIN and creatinin, (24) 1363
free diet, excretion of creatinin by individuals on, (47) 467
CREATININ and creatin, (24) 1363
and creatin determinations, (29) 2096
and uric acid, non-protein nitrogenous compounds of blood in nephritis with reference to, (46) 1558
excretion of, by individuals on creatin-free diet, (47) 467
CREMASTERIC reflex, (41) 1197
CREMATION, premature, physician's fear of, 2081
CREOSOTE, *1072
CRESOLS, *1072
CRETINISM, nervous, (8) 1111
CRICOID cartilage, occulsion of trachea due to injury to, after intubation and tracheotomy, (6) 1111
CRIME and alcohol, (97) 1038
and disease, 991—ab
and war, 66
physical defects as cause of, (80, 81) 275
CRIMINAL anthropology, principles of, (179) 87, (137) 276
responsibility, attenuated, from standpoint of military discipline and compensation, (50) 1801
CRIPPLED, one-armed, soldiers, training of, 1515
reeducation of, 1671
soldiers, training schools for, (53) 1947, 2152
war, assistance for, 451, 923
CRIPPLING, prevention of, among wounded, (48) 1113, (81) 1457, (21) 1532, (64) 1535
CRONEY'S Specific for Epilepsy, 1344—P
CROSSEN'S method of precluding possibility of leaving gauze in abdomen, (117) 778
CROTALIN in epilepsy, (19) 177, 1036, (70) 1802
toxicity of, (73) 1942
CROUP, membranous, differential diagnosis of, by auscultation of larynx, (94) 1038
tracheotomy in, (101) 1951
CROWDING and health of working people (26) 177
CRUSHING injuries, (128) 1194
CULICIDA, respiration of, (16) 1363
CULLEN'S method of exposure of appendix, *299, 1017—C
CULTIVATION, artificial, reactions between bacteria and animal tissues under, (62) 775
bacteria from feces, technic of, (97) 1950
chick tissues in vitro, new medium for, (87) 84
human sarcomatous tissue in vitro, (52) 1273
human tissue in vitro, (51) 1273
living tissues outside the body, 516—E
of parasite by utilization of intermediate host of parasite, 2174—ab
tetanus bacilli from blood, (107) 1951
treponema pallidum, (61) 1108
tubercle bacillus, from discharging ear in chronic purulent otitis media, (67) 1685
typhoid bacilli from blood, bile and stools, simplified technic, (32) 1618
typhoid bacilli, improved technic for, (112) 950
vaccine virus free from bacteria, (13) 2168
virus of vaccinia, studies on, (57) 1359
CULTURES, aged, therapeutic injections of, (37) 374
bacterial, folding paper demonstrating case for, *1579
blood, suggestions as to, (111) 1360
medium, canned, (38) 2102
medium, canned nutrient, (64) 1365
medium, clarifying, 239
medium, dry, for differential diagnosis of typhoid and dysentery, (50) 475
medium for protozoa, new, 749—E
medium, improved technic for, (81) 1690
medium, starch agar, (35) 2097
CUNEIFORM, fracture of, with dislocation of semilunar bone, (45) 700
CUPPING, dry, in laryngeal affections, (12) 698
CURET, uterine, 3 in bladed, (64) 468
CURIE, park name, in honor of, 1859
CUTTER lectures on preventive medicine, 353
CUVIERIAN organs of holothuria capitva Ludw., physiology of, (22) 693
CYANOSIS, symmetrical, of hands and feet, thyroid treatment of, (156) 627
CYST, appendix, pseudomucinous, relation to pseudomyxoma peritonei, *1834
appendix, pseudomyxomatous, with calcification of walls, *657
bladder, (157) 380
blood, solitary, in kidney with hematuria, (144) 379
blood, subperiosteal, of orbit, simulating osteosarcoma, (150) 1944
bone, (67) 91
bone, benign, (105) 2020
bone, solitary, (122) 1202
cerebellopontine angle, operation, (90) 179
Dermoid: See Dermoid
Echinococcus: See Echinococcosis
kidney, calcareous, (19) 1612
kidney, in child of three, (39) 781
kidney, solitary, (81) 375
mesentery, (37) 700
ovary, kidney cystadenoma mistaken for, (116) 1878
ovary, torsion of, (9) 466
pancreas, (74) 1884
parovarian, in right broad ligament, double ureter simulating, (18) 1798
sebaceous, removal of, under suggested anesthesia, (17) 698
tuberculous, of mesentery of jejunum, removal of, with segment of bowel, death later due to tuberculous meningitis, (125) 1110
CYSTADENOMA, (137) 544
kidney, malignant papillary, with metastases, (154) 180
kidney, mistaken for ovarian cyst, (116) 1878
multilocular, of retroperitoneal origin, (27) 1106
CYSTICERCI of tenia pisiformis Bloch and of tenia serialis Gervais, experiments on, (58) 1615
CYSTIN concrements and cystinuria, (57) 282, (92) 949
CYSTINURIA and cystin stones, (57) 282, (92) 949
CYSTITIS, bulgaricus bacillus in, with alkaline urine, 465—ab

V. 191

CYSTITIS, calcareous deposits in, (145) 2029
coli, (118) **619**
in children, **2173**—ab
pseudodiphtheritic, case of, **270**-ab
quinin solution in, ***505**
CYSTOID, perirenal, in man and animals, (51) 1365
CYSTOMA, papillary, of ovaries with ascites, **1102**—ab
CYSTOMYOLIPOSARCOFIBROMA, retroperitoneal, huge, (132) 1039
CYSTOSCOPE, direct vision, with water dilatation for proctoscopy, ***1154**
CYSTOSCOPY, difficulties in, (88) 1529
CYSTOSTOMY, early, in wounds of spinal cord, advantages of, (102) 1038
CYSTOTOMY, suprapubic, (65) **179**
CYTOLOGY of cerebrospinal fluid, (30) 1451
CYTOPLASM, internal, of animal and plant cells, studies on permeability of, (21) 1794

D

DACRYOCYSTITIS, chronic, lachrymal sac in, method of destroying, (114) 469
intranasal operation with guide for cure of, (25) 857
West intranasal resection of tear sac for, (32) 467, (146) 1944
DACRYOCYSTORHINOSTOMY, (26) 857
DAHLIA in infections, (3) **1793**
DAMAGES for death from ptomain poisoning from eating pie, **173**-MI
for delay in delivery of dog's head to Pasteur Institute, **364**—MI
for injuries causing epilepsy, **1934**—MI
for injury to spinal cord, **1680**—MI
for malpractice, bases of, and skill required of surgeon, **1356**—MI
for malpractice in treatment of fracture of limb, **1606**—MI
for second injury from exercising after fracture of patella, 365 MI
grounds for allowance of, **1269**—MI
recoverable for aggravated injury, **1606**—MI
recoverable, need not submit to operation for nerve tumors, **1786**—MI
DANYSZ method in treatment of wounds, **1341**
DARIER'S DISEASE: See Keratosis
DARLING, S. T., of Rockefeller Foundation to study cause of anemia in Malay, **1855**—E
DARPIN, **607**—P
DATE boil, **1603**
DEAD Shot Cough Remedy contains amyl acetate mixture, **1348**
DEAF, Central Institute for, practical demonstration with pupils of, (58) **2019**
education of, medical cooperation in, (55, 57) 2019
education of, responsibilities of the community in, (56) **2019**
teachers for, need of properly qualified, (59) **2019**
DEAFNESS, diagnosis and treatment of, (61) 1365
labyrinthine, unusual case of, (45) 1192
middle-ear, non-suppurative forms of, (32) 1687
Mueller-Walle method of lip-reading in, for adult, (98) 777
noise, (19) 1196
parotitis followed by, (99) 942
sociologic aspect of, (65) 371, (33) 1273
total, from explosion of shell, (38) **861**
treatment of, new attempts at, (145) 552
tympanic, treatment of, ***109**
war, (45) 1277
DEATH, diagnosis of real and apparent, in soldiers, (87) 1537
rate in Berlin last year, **2174**—ab
rate, relation of tax rate and, **1495**—ab
DECAPITATION, technic of operation, (98) 1453
DECIDUOMA MALIGNUM, clinical and pathologic features of, (16) 1272
complicating 2 months' pregnancy and degenerated uterine fibroma, (120) 1361
testicle, (7) 2168
testicles and ovaries, (143) 2029
DECINORMAL sodium hydroxid, **850**
DECOMPRESSION, cerebral, method of, **1585**—E
cranial, operation of, (9) **1449**
operations in diseases of optic nerves, (33) **616**
operations in disorders of brain, value of, (122) 1194
puncture of corpus callosum, (73) **1274**
spinal, in meningomyelitis, (82) **776**
trephining, influence of, on choked disk, (63) 623
DECUBITUS in traumatisms of spinal cord caused by wounds of war, prevention of, **2082**
treatment of, (58) **186**
DEFECTIVES: See Feebleminded
DEFORMITY, acute anterior poliomyelitis cause of, treatment of, (86) **777**
angular, mechanical treatment of, **(100) 1039**
hands and feet, congenital, (32) 1875
hands and feet, in idiocy, (83) **784**
in children, neglect of, (156) 698
of skeleton and arrest of development in multiple bony exostoses, (52) 945
DEGENERACY: See also Delinquents; Feebleminded; Idiots
DEGREES in medicine, higher, and university, ***790**
DELAWARE state board December report, **362**
DELINQUENCY, juvenile, (49) **1941**
DELINQUENTS, Ohio bureau of juvenile research, (126) 619
DELIRIUM gravé, 3 cases and differential diagnosis, (89) 179
tremens, rachicentesis in, favorable influence of, (68) **1620**
tremens, treatment of, (133) **867**
tremens, veronal in, (71) 702
DELIVERY: See Labor
DEMENTIA, epileptic, (4) **937**
paretic, intracranial treatment, (40) 1451
praecox, (93) 1453
praecox and nucleate of soda, (18) 856
praecox, blood findings in case of, with periodical fluctuation, (161) 627
praecox, clinical and anatomic study of case of, (86) **469**
praecox, cortex lesions and anomalies in, topographic distribution of, (10) **937**
praecox developing in soldier from shock of being called to colors, (60) 701
praecox, double radical mastoidectomy in, with mental and physical improvement, (21) 272
praecox, early physical symptoms of, (87) **1038**
praecox, early recognition of mental limitations of, (71) **2019**
praecox, etiology of, (122) **286**
praecox, medicolegal testimony in, (117) 1367
praecox, nuclein solution (Lundvall's formula) in, 5 cases, (180) **87**
praecox, status lymphaticus in, (32) **273**
praecox, thymus and pituitary extract in, **937**—ab, (6) **1939**
praecox, thyroid treatment of, (101) **188**
progressive, and total loss of memory after attempt at suicide by hanging, (89) 2106
DENTAL caries, neutralizing power of saliva in relation to, (2) 855
clinics, **1782, 2008, 2158**
diagnosis, Roentgen rays in, (2) 1275
prothesis for wounded, (58) 1535
service in hospitals by appointment of interns, ***387**
DENTISTRY, otolaryngology and rhinology, interdependence of, (70) **84**
DENTISTS, army, examination of, **448, 1859**
cooperation of physicians and, in conservation of health, (100) 1616
duty of, to state in relation to war, (16) 620
exposure of, to mercury poisoning, **1586**—E
DERMATITIS, bullous, due to colon bacillus, vaccine therapy, (42) 1685
exfoliativa, case of, **1937**—ab
exfoliative, and granuloma fungoides showing results of treatment, (46) 857
DERMATITIS, exfoliative of newborn infant, 3 cases in same family, (79) 1037
herpetiformis, case of, (102) 1360
metol, **610**
of pellagra, (45) 1685
orthoform, (139) 2021
Roentgen-ray, treatment, (17) **82**
venenata and leprosy, (139) 2021
DERMATOLOGY, radium in surgery and, (90) 777
serodiagnosis in, (58) **1801**
DERMATOSES, metabolic influence of chlorids on, (31) 2018
metabolism of nitrogen in, (21) **699**
of pregnancy, (30) 1527
DERMOGRAPHISM in children, (83) 92
DERMOIDS, inclusion of pharynx, (31) 1363
of kidney, (118) 858
DETROIT, fly campaign in, **1919**—E
Tuberculosis Sanatorium for Children, **360**—C
DEUTSCHE medizinische Wochenschrift warns army medical men that it cannot print all articles sent in, **1511**
DEXTROSE, influence of hydrazin on utilization of, (34) 1358
DIABETES, BRONZED: See Hemochromatosis
DIABETES insipidus, experimental, in dogs, (18) 1190
insipidus of hypophysial origin, **1079**—E, (133) **1202**
mellitus after vaccination, (60) 1535
mellitus, Allen treatment of, (37) **1875, 2008**
mellitus, artificial pneumothorax and, (59) **701**
mellitus, bacillus bulgaricus in, (130) 1797
mellitus, caramel in diet in, (51) 374, **(40) 1113**
mellitus, carbohydrate cures in, study of, **1873**—ab
mellitus, casein and cream in, (5) **1275**
mellitus, coma in, not due to acetone bodies, (137) **1879**
mellitus, duodenum in, (37) **1946**
mellitus following contusion of liver region, (164) 627
mellitus, hedosit in, limitations of, **1165**—E
mellitus in elderly, (90) **1038**
mellitus in young, harmless forms of, (101) **92**
mellitus, intestine toxemia and, (95) 179
mellitus, lactic acid bacillus in, ***495**
mellitus, pentosuria and lactosuria complicating, ***308**
mellitus, perforated stomach ulcer involving pancreas in, (107) 1118
mellitus, premonitory stages of, (85) **550**
mellitus, proprietary foods in, (47) 857
mellitus, pseudolevulose in urine in, (37) **944**
mellitus pupil reflex in, transient loss of, (122) **1692**
mellitus, raw starch in, (110) **942**
mellitus, refraction in, sudden changes of, (151) **1944**
mellitus, secretin therapy in, failure of, **1076**—E
mellitus, sugar in blood in, (139) **1202**
mellitus, sugar in blood in, guide to treatment of, (100) **1459**
mellitus, surgery and, (55) **282**, (21) **540, *1130**
mellitus, theory of, (77) **941**, (9) **2096**
mellitus, trauma followed by, (53) **1882**
mellitus, treatment of, (10) **856**, (108) **1360**, (74) 1615, (46) 1685
mellitus, treatment of, in dispensaries, (56) 1528
mellitus without hyperglycemia, **1661**—E
pancreatic, hyperglycemia and glycosuria of, blood transfusion and, (3) **856**
pancreatic, hyperglycemia of, influence of pregnancy on, (25) **694**
pancreatic, pathologic anatomy of, (92) **85**
phlorhizin, narcotic drugs in, study of, (9) **2096**
renal, (155) **1694**
respiratory quotient in, (8) 2094
DIAGNOSIS, (37) 939
bacterial vaccine given before fully establishing, (84) 1615
biologic, by means of intermediate host, **2174**—ab
DIAGNOSIS, common errors in, (33) 1196
correct, dependence of, on scientific training, **1430**—E
early, of disease, (6) 183, (2) 277
element of certainty in, (121) 619
mistaken, in hospital for advanced tuberculosis, ***11**
paraoperative pathologic, (26) 1684
surgical, cases with erroneous, (136) **86**
surgical, greater care in, (111) 1616
U. S. Supreme Court decision recognizing necessity in practitioner of sufficient knowledge to make, **1431**—E
why physicians err in, **1076**—E
DIAPHORETICS, ***1846**
DIAPHRAGM hernia, **464**—ab
hernia, diagnosed by Roentgen-ray, ***1237**
inflammation beneath, ***1307**
physical signs referable to, and importance in diagnosis, (56) **541**
DIARRHEA, chemical composition of feces in, and of normal feces, (3) **1105**
feces in, composition of, **1992**—E
in infants, severe, indicatioas for treatment, **2166**—ab
indigestible food and chilling of abdomen as factors in, (71) **1279**
infectious, (3) 614
kaolin-charcoal in, (99) **1459**
prophylavis and treatment of, in field, pulverized wood charcoal for, (38) 1618
sedative medication in, (44) 90
summer, in children, (87) 2020
summer, of infants and children, Stoelzner's casein calcium milk in, (32) **824**
summer, of infants, study of, during summer of 1914, (5) 1105
surgical, (71) 1032
DIASTOLIC and pulse pressure, (9) **271**
DIATHERMIA, (126) 85, (1) **182**
and ultraviolet rays, combined treatment with, (126) 951
for ear, technic for, (115) 1367
in gonorrhea, special electrode for, (109) 1201
in inflammation of ovaries or fallopian tubes, (91) 1200
in inoperable malignant tumors, (3) 1275
in inoperable tumors of nose and throat, (21) **944**
in leprosy, (9) **88**
in war wounds and diseases, (67) 1948, (73) 2025
production and use, (3) **544**
DIATHESIS, exudative, **1443**
hemorrhagic, in typhoid, (136) 552
DIET: See also Feeding
DIET and purity of ether in postanesthetic glycosuria, **668**—E
and resistance to disease, **998**—E
at front among soldiers, (60) 2103
beriberi and, **1668**
cancer and, (45) **1876**
deficiencies and proportions of foodstuffs, **1077**—E
flora of feces in typhoid and, (79) **776**
for sick and food supply, (59) 863
Goldberger, in pellagra, (174) 87
important principles in, (30) **474**
in wartime, (96) **1459**
influence of, of marine algae on iodin content of sheep's thyroid, (74) **941**
influence of, on necrosis caused by liver and kidney poisons, chloroform, phosphorus and alcohol, (31, 32) **369**
intestinal bacteria and, **1500**—E
iodin content of thyroid glands and, **1080**—E
nitrogenous, in chronic nephritis, (41) **939**
postanesthetic glycosuria, influenced by body temperature, purity of ether and, (26) **272**
rational, for working man, (60) 1278, (38) 1533
routine in Massachusetts General Hospital, (77) 1453
typhoid, **610**
typhoid, dangers of too greatly restricted, (95) 85
typhoid, high calory, **251**—E
typhoid, high calory, of infants and children, (5) **1682**
vegetarian and mixed, biological, chemical and physical factors in, (104) **1281**
DIETETICS of eczema in children, (32) 1613
technic and art in, (99) **285**

DIGESTION disturbances from war bread, treatment of, (69) 1689, (80) 1690
disturbances in infants, pathogenesis of, (111) 93
disturbances in older children, treatment of, (58) 1948
faulty, dependence of disease on, 1782
gastric, protein curve of, in normal and pathologic cases, *1737
in infants, influence of posture on, (4) 1272
normal, importance of salt and water for, (30) 474
of bottle-fed infants, leukocyte counts during, (2) 1682
peptic, and animal charcoal, (69) 1883
DIGESTIVE TRACT: See Gastro-Intestinal Tract
DIGITALIS: (51) 1107
action of, 463—ab
action of, clinical and electrocardiographic studies of, 463—ab
and William Withering, 1993—E
effect of, on heart and kidneys, (117) 286
group, *1581, *1655
influence of, on T wave of human electrocardiogram, (18) 2169
preparations, methods of experimental testing, (79) 784
therapy, (119) 697
DIGITIGRADE, (77) 2019
DIOS Chemical Company's preparations, 165—P
DIOVIBURNIA, 166—P
DIPHTHERIA, 588—T, 742—T
aid for Mexico, 1008
and tetanus toxins, detoxication of, (57) 1456
antitoxin and paralysis following, (87) 1690
antitoxin in erysipelas, (61) 186, (123) 1460
antitoxin, intravenous and intramuscular administration of, (69) 1452
antitoxin, intravenous injection of, in children, (5) 367
antitoxin, literature on, 168
antitoxin, protective action of, on reinjection, (64) 375
bacilli, bacteremia due to, (63) 1358
bacilli, distribution of, in body, (85) 1623
bacilli, Gins' and Conradi's methods for differentiating, not reliable, (79) 2025
bacilli, staining for microscopic examination, (124) 1368
carriers, (25) 781, (45) 1614, (86) 1623
cerebral hemiplegia sequel to, (139) 1797
cerebrospinal meningitis and, in Salisbury Plain Camp, 353
epidemic, Hamburg, 1090-1914, (124) 2028
epidemic of, checked through isolation of carriers, (43) 857
epidemic, report on, (53) 178
epidemiology of scarlet fever and, in Christiania, (119) 286
epidemiology of whooping-cough, measles, scarlet fever and, in Cleveland for 1913, (26) 368
from sociologic standpoint, (40) 1800
infection, persistent, diphtheria endotoxin in, (28) 861
meningitis complicating, (112) 93
morbidity, reducing, (42) 1614
nasal, primary, (97) 275
polyneuritis following, (127) 94
Ponder's stain for, modification of, (19) 1450
prophylaxis in schools, 662—T
protolytic ferments in, (90) 1690
return cases of scarlet fever and, *487
Schick test for immunity to, (1) 1105, *1203, *1205, *1206, 1246—E, (69) 1359, (70) 1452
skin, (109) 626
stenosis of larynx following, (93) 1690
toxin in serum of rabbits, action on blood pressure in normal rabbits, (64) 782
toxin test, intradermic, *1206
tracheobronchial casts in woman of fifty, (97) 1796
treatment of, (52) 1535
vaccination, (110) 1952
DIPHTHEROID infections, (58) 1876
widespread distribution of, (69) 1796
DIPLEGIA, cerebral, atonic form of, (1) 1195
DIPLEGIA, spastic cerebral, severe jaundice in new-born infant cause of, (9) 1105
DIPLOCOCCUS infections of throat, Connellan-King, (65) 2019
sepsis in child, fatal, (118) 1202
sepsis, pseudotetanus from, (104) 1951
vaccine, polyvalent, in gonorrhea, (134) 551
DIPLOPIA, syphilitic, neosalvarsan and mercury in, (144) 620
DISEASE, changing tendencies in, (142) 86
early diagnosis of, (6) 183, (2) 277
economic cause of, (100) 469, (80) 618
eradication of, (78) 179
fear and, (18) 779
geographic distribution of, 492—ab
mortality in various, 1810—ab
obscure causes of, (74) 542
prevention, making it popular, (62) 274
prevention of, during war, 842
resistance in plants, 2141—E
transmission of, 1488—ab
DISINFECTANTS and antiseptics, *1070
common, mode of action of, (108) 2027
general, *1240
selection of, for special microbes, (109) 2027
DISINFECTION: See also Sterilization.
DISINFECTION and contagion, (148) 276
of feces, chemical, (35) 694
of milk pans and bottles with calcium hypochlorite, 1019
of passenger trains, (47) 1457
DISINFECTORS, training official, 2000
DISPENSARY, associated, of New York, (113) 1796
growing factor in curative and preventive medicine, (13) 1683
public, care required in, 1870—MI
DISTEMPER in dogs, relation of ozena to, and Perez bacillus, (32) 944
DISTRICT OF COLUMBIA January report, 1604
medical news, 1167, 1664
October report, 1183
DIURESIS induced by intravenous injection of hypertonic sugar solutions, (57) 1947
DIURETICS, *1761
DIVERTICULITIS, (113) 180
and sigmoiditis, 11 cases, (38) 700
large intestine, roentgenology of, 3 cases, (31) 1106
DIVERTICULUM, bladder, (52) 940, (44) 1107
bladder, operation for, (114) 1460
bladder, urinary, congenital, in Infants and children, (126) 1943
intestine, small, (80) 784
larynx, (17) 615
Meckel's, inverted, cause of intussusception, *1065
Meckel's, obstruction of, *581
DIVING, deep, observations on, (122) 1530
DOAN'S Kidney Pills, 531
DOG ambulance, usefulness of, 1174
head of, damages for delay in delivery of, to Pasteur Institute, 364—MI
DOREMUS-HINDS ureometer, use of, 1182
DOURINE, conglutination in diagnosis of, (43) 2096
DOWLING, Dr., fight on Wine of Cardui, endorsed by the Louisiana legislature, 2085—P
DRACONTIASIS or dracunculosis, (7) 87
DRACUNCULOSIS or dracontiasis, (7) 87
DRAINAGE for abscess in brain, (114) 950
in suppurative appendicitis, method of, (163) 182
lymphatic, of peritoneal sac, (23) 1106
siphon device for, of deep wounds, (99) 1280
tubing, oil-impregnated, (120) 2021
vagina, simple method, (141) 1362
DREAM, act of everyday life treated as pretended, and interpreted by psychanalysis, (69) 1942
analyses, (43) 467
analysis of single, as means of unearthing genesis of psychopathic affections, (68) 1942
artificial, and lying, (41) 467
DRESSINGS, adhesive plaster, for war wounds, (47) 1801
and plaster casts, technic for, (53) 475
DRESSINGS, charcoal, for wounds, 1671 (57) 2104
medicated peat, for wounds, (76) 702
paper for, (78) 1457
portable extension, (75) 702
station in France, (2) 2169
stations, general rules governing, with suggestions for changes in equipment, (100) 179
sterilization of, (36) 1618
DROPSY, congenital, fetal erythroblastosis form of, 1506—E
congenital, general form of, (23) 473
localization of, in wounded area, (26) 1456
DRUGGIST: See Pharmacist
DRUGS acting on central nervous system, 242
addicts, number of, 1663—E
administering, in war, by employing semisolid base and enclosing tube, (27) 861
anaphylaxis, (42) 1941
and food, menace of, (82) 941
chemical structure and pharmacologic action of, (11) 620
crude, action of molds on, 1587—E
eruptions, (89) 1360, (41) 2172
habit, (116, 117) 942
habit and legislation, (93) 275
habit and physician, (108) 469
habit-forming, curse of, in America, (17) 1875
habit-forming, federal and state laws regarding, 1256
habit-forming, Harrison law on, 518—E, 532—ab, 611, 834—E, 849, 911—E, 1019, 1250—E, 1254—C, 1442, (39) 1941, 2007, 2087
habit-forming, Harrison law on, additional regulations, 1002—E, 2079
habit-forming, Harrison law on, inquiries about, 685, 1181, 1265, 1676
habit forming, Harrison law on, interpretations under, 2070—E
habit-forming, Harrison law on, official buttins on, 1171
habit-forming, Tennessee law on, enforcement of, (18) 1875
habit in war time with supply of drugs cut off, (51) 622
habit, short-time treatment of, dangers and inconsistencies in, *1390
habit, treatment of, (61) 618, 927—C, 1022—ab, 1270—ab, 1271—ab
habit, treatment of, literature on, 1023—ab
habitués, (118) 942
habitués, septal perforation in, (112) 1109
high cost of, in Austria, 1860
in treatment of children, (87) 1458
influence of, on human sensory threshold, (78) 1193
inhibitory action of, on vasoconstriction produced by epinephrin, (75) 1942
nomenclature of, 1853—E
should physician dispense his own, (47) 274
standardization of, (110) 778
suggestion and, (74) 702
supply and war, 67
supply in Berlin, 452
supply in Russia, 448
synthetic, manufacture of, 756
synthetic, scarcity of, 842
toxic effects of, on eyes and clinical manifestations, (33) 82
DRUMMER'S palsy, *1138
DUCT, Botalli's patency of, 2 cases, (30) 1880
cystic and common, perforation at juncture of, primary suture, (101) 2020
Steno's, new technic for operations on, (109) 2020
DUCTLESS GLANDS and liver function, 592—E
and onset of labor, (28) 2022
clinical relations of, (92) 1616
disease of, (153) 2030
Insufficiency of, with inherited syphilis, (111) 626
irregularities of, in backward children, (130) 276
serodiagnosis and serotherapy of disturbances from loss of balance in, (73) 1884
therapy, 2094—ab
DUODENOTOMY in common bile duct stone, (34) 1030
DUODENUM alimentation, (74) 2099
alimentation in atony, dilatation and ptosis of stomach, 1874—ab
alimentation, pros and cons of, (34) 1684
DUODENUM, contents, chemical examination of, in diagnosis of jaundice, *565
contents, direct examination of bile and, in diagnosis of gall bladder and pancreatic affections, (47) 280
dilatation, recognition and treatment, (69) 2099
diseases of stomach and, diagnosis and choice of operation in, 1525—ab
in diabetes mellitus, (37) 1946
lavage, (85) 1796
mucosa of stomach and, influence of removal of suprarenals and one-sided thyroidectomy on, (54) 2098
mucous membrane, physiology and pathology, 1939—ab
perforation of, tardy, with trauma, (100) 1367
roentgenoscopy of, (146) 180
roentgenoscopy of surgical lesions of stomach and, (18) 615
semistasis, clinical findings, etiology and diagnosis, (77) 84
surgery of stomach and, factors in, (107) 942
tube for diagnosis and treatment, 1939—ab
ulcer, (112) 1453, 1523—ab
ulcer, acute, of dogs, experimental production of, by injection of epinephrin, (51) 1451
ulcer and cancer of stomach and, roentgenology in differentiating between, (8) 271
ulcer, chronic, (133) 544, *2036, 2090—ab
ulcer, chronic appendicitis and pylorospasm, *1845
ulcer, chronic, operative treatment, (60) 281
ulcer diagnosis of, (2) 544, (135) 1040
ulcer of stomach and, (21) 1450
ulcer of stomach and, diagnosis, (146) 1362
ulcer of stomach and, diagnosis and treatment, (58) 940
ulcer of stomach and, etiology, diagnosis and treatment, (76) 1360
ulcer of stomach and, experimental, after severing sympathetic, (117) 626
ulcer of stomach and, in Panama Canal laborers, (24) 1273
ulcer of stomach and, medical cure by removal of gastric juice corrosion, *1625, 2090—ab
ulcer of stomach and, perforated, (57) 541, (2) 1449
ulcer of stomach and, simulation of, by adhesions, (69) 2099
ulcer of stomach and, simulation of, by adhesions, duodenal dilatation and visceroptosis, 536—ab
ulcer of stomach and, surgical procedures and motility and secretion, *1745
ulcer of stomach and, surgical treatment, (87) 1453, (52) 1619
ulcer of stomach and, surgical treatment of, and influence on gastric motility and secretion, 1103—ab
ulcer of stomach and, under experimental pyrodin anemia, (143) 952
ulcer of stomach or, perforating, operative cure, (110) 1367
ulcer, perforating, (56) 945, (22) 1450
ulcer, perforating, surgical treatment of, 465—ab
ulcer, roentgenoscopy of, (93) 1537, 1873—ab
vasomotor nerves of, (23) 694
DUPUYTREN'S contraction, (3) 1033
DURA MATER, ruptures of, spontaneous and traumatic, during labor, (44) 2024
DURHAM fermentation tube, improved, (16) 466
DWARF growth, Friedreich's ataxia, and myxedema, familial occurrence of, (57) 701
postmortem findings in adult, (141) 379
DYSENTERY, (104) 704, (17) 861, (75) 863, (90) 1459, (84) 2106
a war disease, (19) 88
agglutinating properties of serum in, (85) 1280
amebic, (128) 1453, (10) 2022
amebic, atypical forms of, (55) 940
amebic, chaparro amargosa, in, (25) 1273
amebic, emetin and ipecac in, *982

DYSENTERY, amebic, emetin for radical cure of, (24) 373
amebic, in Uruguay, (116) 1460
amebic, treatment of, (112) 372
among soldiers, (66) 1115, (42) 1456
asylum, (1) 87
bacillary, epinephrin in, (63) 1801
bacillary, in Texas, clinical aspects of, (132) 2021
bacillary, serotherapy and prophylaxis for, (124) 1692
bacilli, acute hemorrhagic colitis without, (99) 92
contagiousness of, (72) 91
differential diagnosis of typhoid and, dry culture media for, (50) 475
etiology of, (60) 1198
institutional, outbreak of, due to Y bacillus, (4) 1879
internal secretion in, disturbance in, (43) 1457
intestinal disease resembling, (61) 375
polyneuritis following, among soldiers, (94) 1690
subfebrile temperature during convalescence from, (83) 1537
DYSMENORRHEA, (116) 619
atropin in, *120
congestive, citric salts in, *733
nasal treatment of, (23) 1684
severe, hemorrhage into ovary with, (24) 1034
DYSPEPSIA, chronic, in children, emulsions of castor-oil and liquid paraffin in, (15) 943
due to appendix, (146) 697
spasmophilic, in infants, (70) 91
DYSPNEA and acidosis, (18) 699
in cardiorenal disease, 250—E, 1938—ab
DYSSYNERGIA cerebellaris progressiva, (5) 942
DYSTOCIA due to funnel pelvis, (35) 1192
DYSTONIA musculorum deformans, (123) 86
DYSTROPHIA due to syphilis of joints of lower extremities, (11) 1611
progressive symmetrical, of fat tissue, (78) 784

DEATHS

Abell, George Coleman, 1440
Abernathy, Jones Cadwalader, 1012
Able, L. Morse, 1176
Adams, Wendell Holmes, 1517
Addis, Charles Franklin, 847
Adey, John Milton, 358
Ahrens, Dr., 920
Aiken, William H., 1261
Alexander, M. P., 1343
Allen, Dudley Peter, 261
Allen, Joseph Eve, 526
Allen, Joseph Olmstead, 2005
Allen, Lefferson, A. D., 926
Allen, Paul, Pomeroy, 758
Allen, William Carey, 2083
Allen, William James, 760
Allen, William Ledmon, 1092
Allinder, Daniel G., 2155
Alsdorf, John, 1260
Altvater, Edward Garrett, 1779
Alvord, Austin White, 1175
Amadon, Alfred Mason, 1090
Ames, Thomas Alfred, 1343
Anderson, Abner Monroe, 1673
Anderson, Calvin Brewer, 262
Anderson, David Ballantyne, 2005
Anderson, Enoch Matthew, 453
Anderson, Frank Clary, 682
Anderson, James, 1177
Andrews, Bertrand J., 1599
Apolant, H., 1257
Appley, Harrison V., 606
Archer, David E., 1092
Armor, Smith, 1176
Armstrong, William Jeff, 1929
Arnold, Julius, 841-922
Arnold, Willis J., 70
Ashton, Thomas Hutchinson, 358
Atkins, Walter W., 262
Ault, Alexander, 2005
Babendreier, George Mylius, 1091
Bacon, Jesse Dwight, 2155
Bailey, George Cornelius, 1864
Bain, Frank Dean, 925
Baird, Howard Lowrie, 1176
Bak, Henry, 2004
Baker, Chester Monroe, 682
Baker, Frank Eugene, 2083
Baker, John D., 527
Baldridge, Samuel T., 682
Baldwin, Henry Cutler, 925
Bambenek, John Damascus, 527
Bandel, J. W., 2005
Bangs, James Ashley, 846
Bannister, Thaddeus O., 1260
Barber, Amos Walker, 1928
Barber, Frank A., 262
Barde, Auguste, 163
Bardwell, Hiram H., 1599
Barker, Frank N., 454
Barker, Job R., 1779
Barnett, John Robert, 1343
Barrette, John E., 527
Bates, Morley De Costa, 164
Bauman, Josiah E., 1672
Beale, Landon A., 760
Bealor, John Wesley, 69
Beals, Francis M., 1343
Beard, Frederick Ira, 1865
Beard, Michael Jacob, 847
Bearden, Henry K., 454
Beary, Mahlon Henry, 358
Beattie, David W., 527
Becker, William, 1865
Beemer, Charles Wilkin, 1779
Bell, Albert William, 454
Bell, John H., 1779
Bell, Thomas J., 1516
Bell, William, 1779
Bell, William Rush, 1261
Bellinger, Smith W., 1176
Benepe, Seth Martin, 1600
Bennett, Robert S., 605
Benton, Stuart Harry, 1012
Bernhardi, Prof. M., 1438
Berry, A. Judson, 1176
Berry, John B., 1673
Berryman, Daniel E., 2005
Betcher, William F., 1176
Bevan, William Richard, 1929
Bezou, Henry, 453
Bicker, Francis Joseph, 2084
Biddle, Thomas, Jr., 926
Bigler, William Brooks, 1343
Billstein, Emma L., 454
Bird, John Henry, 759
Birnbacher, A., 1256
Birney, William Leonard, 1092
Bischof, Louis Frederick, 2084
Bissell, Arthur Frederick, 1672
Black, Ethelbert H., 1672
Black, John Giallard, 1176
Blake, Thomas Stewart, 1865
Blanchard, Joshua Stevens, 1342
Bleyer, Julius Mount, 1342
Bloodgood, Joseph Francis, 1091
Blumer, John Jacob, 925
Boals, Nathan O., 1600
Boesger, Max A., 2005
Bodine, James Morrison, 526
Boggs, Walter DeWitt, 453
Bogle, William Thomas, 2084
Boland, Milton J., 847
Bolon, William L., 1343
Bolton, Albert Edward, 1091
Bombarger, L. G., 682
Boothe, John Henry, 847
Borough, John, 682
Boston, Dudley Ragland, 454
Boutelle, Harry Clifton, 606
Bowen, Robert, 760
Bowie, Alonzo Potter, 1599
Bowman, Charles, 453
Bowser, Addison R., 69
Boyd, Charles Ellsworth, 1014
Boyd, Fred Robert, 454
Boylan, Joseph E., 1517
Bozeman, J. W., 2005
Brackett, Cyrus Fogg, 681
Bradford, Henry Clark, 527
Bradley, Henry Randolph, 1343
Bradley, Tazewell, 1779
Brady, Hugh Young, 846
Brady, Robert Reuben, 454
Brayman, Lorenzo E., 454
Breakey, William Fleming, 759
Bridgman, John Charles, 926
Bright, F. G., 1177
Britton, William, 1091
Brobst, James Calhoun, 846
Brock, Llewellyn, 70
Brock, William A., 1673
Bromley, John Lincoln, 1013
Bronson, Ira Thomas, 1599
Brooks, J. Henry, 760
Brower, Josiah, 1517
Brown, Albert, C., 1517
Brown, Byron D., 1673
Brown, Fred W. A., 925
Brown, George W., 759
Brown, Hattie C., 1517
Brown, Isaac Welsh, 1673
Brown, Jacob R., 1865
Brown, James W., 1517
Brown, John Lloyd, 1865
Brown, Marshall Jacob, 925
Brown, Walter Linton, 1013
Brown, William Ernest, 1014
Browne, Albert James, 526
Brownell, Surg. Carl DeWolf, U. S. Navy, 605
Brownell, William G., 1092
Bruhns, Henry F. D., 1342
Brumund, Diedrich A., 454
Brunner, Charles William, 682
Bruno, Florestano, 1865
Brusstar, Henry B., 1572
Bryan, Gregory G., 1092
Bryson, Adelbert Allen, 527
Buchen, Albert Z., 1343
Bucknell, Martha E., 1440
Buffington, Burnett V., 1176
Bullard, Harry Gates, 454
Bunn, William H., 1517
Burcham, Henry Clay, 1013
Burns, W. Irving, 1013
Burleigh, George W., 682
Burnside, Eliza J. Zimmerman, 2084
Burton, Benjamin T., 1440
Bush, Elijah B., 261
Button, Clayton A., 1779
Bye, Richard Lilly, 454
Byrne, Thomas, 1012
Caldwell, Henry William, 1013
Campbell, James Peckham, 1014
Candler, James M., 1600
Caney, Patrick H., 681
Canine, Thomas Clay, 926
Cannon, Colbert Hanchett, 925
Carhart, John Wesley, 164
Carl, George Davidson, 1673
Carling, William Monroe, 2004
Carlton, Sherman Eldon, 1014
Carney, Thomas, 759
Carpenter, Francis B., 760
Carpenter, Julia W., 2004
Carpenter, Leonard W., 682
Carroll, Robert C., 262
Carruth, Anal A., 847
Carter, William H., 69
Carter, William H., 1600
Casselman, Delmar Louis, 454
Castleberry, Marion C., 2005
Cates, Johnathan Parker, 2154
Cattani, Guiseppina, 1171
Cauthen, R. Sydney, 1260
Cavano, William Michael, 1177
Chaffee, Jerome Charles Marion, 1343
Chalmers, George S., 1261
Chamberlain, Adolphus E., 606
Chamberlain, Gilbert V., 1176
Chambers, Harry Paul, 759
Chambers, John J., 70
Chambers, John William, 847
Chancellor, Charles William, 357
Chapin, Elijah Bennett, 1600
Chapman, George Huston, 358
Chapoton, Edmund A., 759
Chappell, George H., 1176
Chase, Ralph Rollin, 1778
Chenoweth, Montfort Scott, 70
Cherry, Wilbur T., 1599
Chesley, James Bell, 1517
Chew, Samuel Claggett, 1175
Christopher, William H., 1517
Clark, Alfred C., 1929
Clark, Charles F., 1517
Clark, Edward Daniels, 758
Clark, Franklin Chase, 1672
Clark, Jacob W., 1672
Clark, James Guyon, 1440
Clausnitzer, John F. A., 164
Claypole, Edith Jane, 1342
Clement, Charles Rolph, 1779
Clement, Franklin, A., 358
Clementson, James A., 2084
Clouston, James R., 1343
Clouston, Sir Thomas Smith, 1594
Coale, R. Dorsey, 1929
Coates, Truman, 847
Cobb, John W., 527
Cogswell, Edward Russell, 164
Cohn, Sigismund, 1929
Cole, Directus DeForest, 2084
Cole, Thomas Jax, 1177
Cole, Samuel, 2083
Colegrove, Charles Hiram, 2084
Collar, Adoniram Judson, 1014
Collins, DeWitt, C., 1177
Collins, Samuel Herbert, 1439
Collins, Rudolf, 1343
Combalat, Dr., 1438
Combe, Louis Abel, 926
Comfort, Aaron Ivins, 605
Comfort, Francis Alfred, 682
Cook, Ishan Henry Clayton, 606
Cook, Joseph Tottenham, 682
Cook, William F., 527
Cooke, Albert Samuel, 846
Cooke, Clarissa E., 1092
Cooke, Edward P., 1672
Coolidge, Frederic Shurtleff, 1778
Cooper, J. E., 682
Corcoran, Jay Sylvester, 164
Cornet, Georg, 1171
Cornet, Prof., 1515
Cornwall, Vincent Cumming, 1779
Cottingham, Ira A., 526
Cottington, Robert, 1779
Cotton, John Calvin, 1091
Coughenour, J. F., 2005
Courtright, George S., 606
Coutlee, Helier Noel, 1092
Cox, James B., 261
Craig, John Calvin, 682
Craton, Samuel Boyce, 1012
Crawford, James Rea, 606
Cremin, Lawrence Mitchell, 846
Creveling, Charles Franklin, 1598
Crocker, Edwin, 1261
Croft, Theodore Gaillard, 1091
Cronmiller, John D., 454
Crooks, William C., 1177
Crowder, William Alexander, 1600
Cubbage, Samuel Thomas, 1865
Culberson, Alfred Napoleon, 759
Culpepper, James William Washington, 2083
Dame, Alexander Anthony, 1261
Dana, Robert Shoemaker, 681
Daniel, J. Wallace, 846
Daniel, Richard Potts, 1516
Dansereau, Hereule, 358
D'Arcy, Hugh Thomas, 2005
Darrow, Silas W., 1865
David, Alfred, 1673
Davies, William T., Jr., 1091
Davis, Amos C., 1672
Davis, Amos T., 2154
Davison, John Franklin, 759
de Andrade, C., 1594
DeBary, J., 2080
de Cerenville, Prof. E., 1776
Deemy, John Saxton, 846
Deetjen, H., 2080
De Graff, Abram, 1177
DeHart, Henry Garrett Voorhees, 70
Delamater, Nicholas B., 1013
De La Perriere, William Ernest, 2084
Delpiano, Vincenzo, 527
del Toro, G., 523
Denny, William B., 1865
Desjardins, G. Henri, 453
Des Rosiers, Louis J. P., 846
de Verteuil, Fernand Louis J. M., 1013
Dewar, John Buchanan, 527
Dewberry, Thomas J., 70
Deweese, George W., 760
Dewey, Charles Richard, 527
Dey, Addison Henry, 2084
Dice, John Brazelton E., 70
Dickey, D. C., 1517
Dickey, Ross V., 2155
Digges, John T., 682
Dillon, William P., 1929
Dix, John A., 69
Dixon, Robert K., 1343
Doane, William B., 1343
Dollard, Edmund Charles, 1261
Dollens, Tirey C., 1865
Donnellan, Patrick S., 1779
Donnelly, James F., 1012
Donoghue, James K., 846
Doolin, Thomas Carlyle, 1599
Doss, Charles H., 1092
Dougall, Susan Grace, 1014
Dougall, William, 1929
Dougherty, William Joseph, 1517
Douglass, Frank Mills, 1929
Dow, Nelson Lucius, 847
Dowd, Cornelius F., 760
Downey, William St. John, 1673
Doyle, J. N., 1517
Dreishach, Lee, 1092
Drennan, Michael Coyle, 1176
Drew, Thomas B., 1672
Duncan, James A., 454
Duncan, John M., 1517
Duncan, Thomas Emerson, 1176
Dunham, M. D., 2155
Dupin, John H., 262
Dusenbury, Henry, 262
Duvall, William S., 2005
Eagon, Sampson, 847
Ealy, Taylor F., 1013
Eaves, John Forthune, 1599
Eckerson, Edward, 70
Eddy, William Cornelius, 262
Edgell, Lloyd L., 526
Edie, James Orton, 2004
Edmunds, Gerald O., 925
Edwards, Charles, 1599
Edwards, Sherman, 1865
Fidler, Samuel S., 846
Eisenbeiss, Erastus M., 1261
Eldridge, John Rice, 2005
Elliott, Malin C., 1517
Elliott, Thomas, 1012
Ellis, Elizabeth, 760
Elmes, J. J., 1261
Elzey, Mason C., 1673
Emerson, Enoch J., 1260
Englisch, Prof. J., 2080
Erdmann, Rudolph F., 1343
Etter, Freeland L., 760
Evans, Leslie Howard, 1672
Evans, Thomas S., 760
Evans, William H., 70
Eve, Paul Fitzsimons, 164
Eves, James S., 164
Ewart, James B., 358
Fagan, Charles Joseph, 1672
Fairman, Eli Wesley, 1779
Faison, John Miller, 1598
Farley, James T., 1600
Farnham, Robert, 1013
Farnum, Charles E., 1516
Farr, Rezier S., 1176
Farrar, Joseph Teel, 1177
Farrish, Malcolm James, 606
Faust, Jonathan N., 682
Feigel, George Clayton, 526

Fernitz, Gustav, 1176
Field, James Brainerd, 1516
Filgentrager, Kreisarzt, 1257
Finlay, Richard, 1014
Finley, Georgia Estella, 1600
Finnimore, Daniel W., 847
Fischer, Waldemar Edward, 261
Fish, Edward Clinton, 1865
Fish, George Nixon, 1929
Fisher, Daniel N., 1673
Fisk, Samuel Augustus, 526
Flinn, Francis Marion, 606
Flint, Omar Alpha, 846
Flood, Thomas Wilfred, 70
Flower, Frank W., 1177
Floyd, Joseph Walker, 2154
Flynn, Charles Henry, 454
Foote, Jesse Jacob, 1177
Ford, Charlotte W., 453
Ford, Edward Francis, 846
Ford, George, 1599
Ford, James Henry, 1598
Foreman, Josephus, 454
Forman, William Marion, 2004
Forssner, G., 1171
Forwood, Brig. Gen. William Henry, 1778
Foster, Daniel H., 1517
Foster, Frederick Lewis, 69
Fournier, Jean Alfred, 65, 356
Fouts, David C., 1092
Fowler, John Willis, 1092
Frank, John N., 1865
Frankenberger, Prof., 2000
Fraser, Charles Edward, 1865
Fraser, Robert, 1600
Freeny, Greensburg, W., 1176
French, Robert Clement, 2083
Freund, Raynor Spalding, 1014
Friedler, Julius L., 262
Fritsch, Prof. Heinrich, 2080
Fritz, Horace Morgan, 1865
Fry, Charles B., 1013
Fryer, Robert Newton, 2084
Fuchs, Albert Felix, 1865
Fullenwider, Marcus L., 926
Fuller, Daniel August, 1673
Fuller, Daniel E., 2005
Fuller, Frank, 926
Fulton, Scott, 682
Funk, Zachary Taylor, 681
Furbeck, George Henry, 1343
Gaffney, James Alfred, 1779
Gail, William Henry, 759
Gaines, John Mutius, 1343
Gale, Arthur Ernest, 1673
Gale, John A., 2083
Gamble, Thomas A., 682
Gants, John, 2155
Gardner, William J., 1092
Garnet, H. T., 1177
Garnett, Alfred H., 1440
Garratt, Alton H., 261
Gates, Sterling J., 358
Gavin, Michael Freebern, 1929
Gayman, Willard Solomon, 1779
Getty, Oliver G., 1176
Geyl, A., 523
Gibney, Homer, 846
Gibson, Samuel W., 606
Gilbert, Horatio, 1672
Gildersleeve, Franklin Van Buren, 164
Gillespie, William Bower, 1261
Gillis, Alexander F., 1013
Gills, William James, 2004
Gilman, Roland Hocking, 70
Glass, James H., 847
Glenn, Samuel Miner, 2083
Gliddon, George Clarence, 1929
Glover, James R., 1865
Glover, Leslie, 926
Golden, Erazmus Z. F., Jr., 527
Goldin, William F., 1865
Goldsworthy, Will, 1091
Gonaux, Theophile, 606
Goodman, Edward Ellerslie, 2154
Gotcher, C. W., 2005
Gottschalk, S., 258
Gowers, Sir William Richard, 1594, 1863
Gragg, Wilford Harris, 759
Grant, Herbert Lucian, 2083
Graves, George B., 2154
Gray, George W., 605
Gray, James N., 454
Gray, John Wesley, 526
Gray, Mason Wilbur, 1598
Gregory, George W., 1779
Griffin, Albert, 1599
Griffin, Loyal Bishop, 926
Griffing, George Prosser, 1779
Griffith, Franklin J. Clay, 2155
Grigg, Robert C., 262
Griggs, William Orlando, 1013
Grignon, Eugene, 758
Grissom, William R., 1014
Griswold, Joseph Bascom, 1012
Griswold, Leavitt S., 1439
Groedel, T., Jr., 920
Grotthuss, John Otto, 358
Grube, Charles L., 262
Gualta, L., 676
Gualta, Prof. L., 1594
Guess, James M., 2083
Guimaraes, P., 1594
Guise, Perry O., 759
Guthrie, Frederick Ashford, 1012
Guthrie, George Wilkeston, 1928
Guthrie, John Blair, 2155
Gwinner, John M., 1092
Hackett, James Francis, 2084
Hagmeier, Clarence Howard, 70
Hahn, Gustav, 2083
Hair, Judson Elam, Jr., 1343
Hale, George V., 2084
Hall, Silas, 606
Hall, William Hunt, 1175
Haltenhoff, Prof., 2000
Hamaker, Edward McVicker, 1929
Hammell, David, 760
Hammerl, H., 1594
Hammond, Lewis C., 453
Hampton, John Werton, 2154
Hanawalt, Henry Osborn, 2154
Hannaford, Joseph N., 1343
Hanson, Charles Pickney, 682
Hanssen, Klaus, 258
Hard, James P., 527
Harland, William Orlando, 1176
Harman, George W., 1440
Harnack, Prof., 1863
Harner, Marshall William, 453
Harper, Edward, 846
Harper, Edwin Brown, 164
Harrington, John Frederick, 2155
Harrison, Andrew B., 1176
Harrison, John Tinsley, 2155
Hart, Henry Hersch, 1092
Harvison, Matthew W., 760
Harwood, Charles Hamant, 1599
Hasenbalg, William, 847
Haskell, John Cheves, 1175
Hathaway, Calvin, 1092
Hathaway, Rosemond Luella, 454
Haven, Henry Cecil, 925
Havens, William, 682
Haviland, William King, 454
Hawes, James P., 1091
Hawkins, Marion S., 1092
Hawley, Edgar L., 1517
Hayden, David Hyslop, 1091
Haynes, William Francis, 454
Hazen, Miner C., 358
Heacker, W. J., 1261
Hecht, D'Orsay, 681
Hefling, Darius, 1672
Heise, John Edward, 1176
Hemenway, Lewis E., 1013
Henderson, Leonard Decker, 454
Hendricks, William S., 1092
Henry, Joel Franklin, 1779
Herrick, Orris E., 1090
Herring, Isaiah H., 682
Herron, James S., 1012
Hesterly, E. L., 926
Heyde, M., 353
Heywood, Cyrus E., 1343
Hibbert, George A., 1929
Hickok, George Benedict, 1440
Hiester, Alvin C., 1014
Higginbotham, William, 69
Hill, Frank Elmer, 681
Hill, Gardner Caleb, 1672
Hill, George B. McClellan, 1014
Hill, Walter Bradley, 682
Himmelsbach, William, 2084
Hinman, Arthur Field, 606
Hitchcock, George G., 164
Hittorf, Wilhelm, 258
Hoag, James B., 759
Hodge, Homer Dwight, 760
Hodge, James Ford, 847
Hodgen, Robert T., 454
Hoey, J. M., 1092
Hoffman, Albert, 1673
Hofler, M., 755
Hogan, Samuel Mardis, 1865
Hollingsworth, Henry C., 1440
Holly, Francis Manton, 1440
Holmes, Frank Haske, 1598
Holson, Ralph R., 926
Holst, Elmer Bertram, 1092
Holt, John Franklin, 2005
Homberger, Frank H., 1261
Hood, John Samuel, 2005
Horn, George Frederick, 1779
Hornaday, Henderson F., 1261
Hotchkin, Gordon Beriah, 1091
Houston, Isaac Newton, 1865
Howard, Erwin P., 1261
Howard, Samuel Livingston, 70
Howe, Herman T. J., 1517
Howe, John Morgan, 760
Howe, William D., 358
Hoyt, Curtiss Clark, 1091
Hubbell, Philo C., 1599
Hudson, C. DeWitt, 358
Huffman, Roscoe McClellan, 164
Huffman, William Veloss, 2005
Hughes, Alonzo Byron, 526
Hughes, Brice M., 1177
Hughes, Donnel, 1439
Hughes, Michael A., 1516
Hughes, Wallace Kirkwood, 164
Hull, James Christopher, 1013
Hund, Otto Henry, 1929
Hungerford, George Howard, 681
Hunt, W. Thad, 1014
Hunter, Alexander, 1599
Hunter, William Lucius, 1599
Hurlbut, Edwin T. M., 1599
Husler, Edward G., 846
Huss, John R., 1261
Hustace, Francis, 846
Hutchings, George Henry, 2155
Hutchinson, William Fred 1672
Iams, John T., 925
Irvin, James S., 1439
Irwin, Joseph Buchanan, 1029
Jackson, Charles Ross, 358
Jackson, James Monroe, 454
Jackson, Robert Dandridge, 164
Jacob, James Francis, 2004
Jacobs, E. L., 1865
Jacoby, Maximilian, 1865
Jacquet, Lucien, 356
Jacquith, James H., 1176
James, Preston Emmette, 1599
James, Walter Montgomery, 1014
Jones, Henry, 2154
Jenkin, John H., 759
Jenkins, Eddie Wise, 2084
Jenks, Alexander, 760
Jenness, John H., 1342
Jensen, Thomas, 1517
Jerman, Loda W. D., 1517
Jochmann, G., 523
Johnson, Alexander S., 2005
Johnson, Charles Warren, 1343
Johnson, Janthius G., 2154
Johnson, John T., 262
Johnson, Luther, 1599
Johnson, Peter Augustus, 1176
Johnson, Wellington, 1673
Johnstone, Edward Richard, 2083
Johnston, Charles H. L., 682
Jones, Charles H., 1929
Jones, Emery G., 453
Jones, Henry Wallbank, 1261
Jones, Melvin S., 2004
Jones, Montague J., 526
Jones, William Allen, 1600
Joyce, James Henry, 2005
Juett, David Polk, 1092
Julian, Horace M., 1177
Kalbach, Adam Monroe, 526
Kalisher, Joseph, 682
Kara, John Matthew, 841, 925
Kasey, J. T., 1673
Kavanaugh, Bascom, 682
Keasby, William F., 605
Keeler, William A. T., 2084
Keen, Thomas F., 606
Keenan, George, 1012
Keidel, Albert, 1517
Kelleher, Michael William, 760
Kelley, John Joseph, 1517
Kelley, Seth Wright, 1778
Kelly, Franklin Ellis, 1865
Kelly, Isaac H., 2155
Kelly, Samuel G., 1864
Kelly, William Dugan, 759
Kerrin, Gerald Lincoln, 1672
Ketchum, William John, 926
Keys, Benjamin Ewell, 682
Kiester, Simon W., 1600
Kilbourn, Judson Giles, 846
King, Albert Edwin Africanus, 69
King, Alphonsus Vincent, 1014
King, Reginald, A. D., 1012
Kingston, John James, 1673
Kinnebrew, Joseph R., 454
Kinnear, John Fenton, 1865
Kinyoun, James Vance, 1343
Kirk, A. S., 846
Kirkpatrick, Murray Baldwin, 1013
Kliaer, Frederick Harlen, 1013
Kneale, William Wabash, 2154
Kneass, Robert K., 1517
Knight, Charles Calvin, 1778
Knight, Samuel S., 1261
Knight, Z. T., 1261
Knowlton, William Waldo, 526
Koehler, Edwin Edward, 454
Koeper, Paul, 847
Kolb, Henry, 1517
Kolipinski, Louis, 69
Koon, Thomas Mort, 1516
Koonce, Frank D., Jr., 1343
Kugeler, Henry B. A., 261
Kunz, Emil, 2005
Kush, Morris, 2083
Lack, Charles Eugene, 925
Ladd, John A., 925
Lake, Edward F., 2154
Lake, John Jasper, 759
Lamaster, Walter L., 1261
Land, Henry Irving, 1014
Landau, M., 2080
Landis, Isaac B., 2155
Landry, Maxime, 682
Langmaid, Samuel Wood, 681
Lanng, Oscar Rosenoen, 1092
Lapp, J. G., 682
Laquer, L., 840
Larimore, Joseph D., 1779
Lauer, Julius Paul, 1176
Laughlin, Edmund Dulin, 681
Lawrence, Frank H., 1261
Lawrence, William Pitt, 357
Lawton, Charles W., 358
Layton, John George, 1928
Layton, William, 606
Lederer, R., 1594
Lee, Daniel Francis, 1517
Lee, John Alphonsus, 1865
Lee, S. B., 846
Lellis, Frederick, 682
Legg, Eugene M., 1343
Lehman, Noah H., 454
Lemon, J. J., 1177
Lemne, George Gustav, 1928
Lenhart, William C., 1599
Leonard, Richard J., 164
Leopold, Isaac, 453
Lereboullet, Leon, 260
Lesage, Charles A. E., 526
Lett, William Lewis, 682
Lewis, Henry Theodore, 926
Lewis, John G., 1600
Leyda, Isaac Newton, 164
Leyman, Ernest Herschell, 1092
Liebermann, K., 523
Lillard, Zachariah Ford, 261
Lincoln, Charles Jewett, 1929
Lincoln, James Boone, 526
Lindsey, Cliff, 926
Lindsey, John W., 1598
Linton, Laura A., 1342
Lipscomb, Cuvier, 1013
Little, George Bailey, 681
Little, Jehu, 1013
Littlefield, George H., 1177
Lloyd, William W., 1599
Loar, George W., 2155
Lockwood, Mr. C., 259
Lockwood, Theodore P., 1600
Loeffler, Friedrich August Johannes, 1338
Loewe, L., 755
Loffler, Frederick, 1861
Lohman, Louis, 682
Lord, Osborne Greene, 1013
Lorenz, Michael, 1092
Loring, David J., 261
Love, Hugh W., 1092
Lowe, Henry Russell, 527
Lubbinga, Henry E., 1517
Lyford, Elisha Hammond, 1013
Mabon, John Steele, 1928
MacArthur, James, 2004
Mack, John S., 2083
Maercklin, Bernard G., 1778
Magen, Dr., 353
Magers, Francis M., 925
Magruder, Ernest Pendleton, 1342
Maguire, Thomas Henry, 1014
Mairinger, E., 258
Manchester, Frank Constant, 1343
Mann, Horace E., 1013
Mann, William Orris, 1439
Manson, Peter, 454
Maple, James B., 1865
Marcacci, A., 755
Marcacci, E., 1171
Markus, Otto, 1257
Marquez, Omer, 1438
Marr, Francis Button, 1779
Marshall, George William, 1516
Marshall, John C., 760
Marshall, John Franklin, 2084
Martel, Arthur Hubert, 760
Martin, Aurelius, 606
Martin, Gregory Arvide, 1779
Martin, John Wesley, 759
Martin, T. Edwin, 2083
Massey, Robert J., 1175
Mathews, Edna Thompson, 1929
Matto, David, 682
Mauldin, Roy Earl, 2155
Maxedon, Thomas H., 1929
Maxwell, Allison, 453
Mayer, Chester Alfred, 1516
Maynard, Alfred Walter, 1014
McAffee, William W., 1672
McAllister, John Joseph Hector, 1517
McAlpin, Jasemin, 1865
McBeth, John Walter, 1517
McCall, Robert Roy, 2005
McCandless, Jay Guy, 1929
McCandless, William Leslie, 1779
McCarty, William T., 1091
McCaw, Daniel, 1014
McClain, Samuel Wilkins, 1599
McClellan, Frederick Erastus, 1343
McCollom, John Hildreth, 2154
McComus, E. M., 1092
McCorkle, James S., 69
McCormick, Daniel R., 2083
McCracken, Robert Edward, 1599
McCreary, Samuel Elliott, 2155
McCuaig, John E., 2005
McCullough, Harmon L., 1014
McCutchan, James Fulton, 2083
McDonald, Archibald Elexis, 1779
McDonald, David Hume, 682
McDonald, Samuel Gilbert, 1599

McDonald, William B., 1091
McDonald, William J., 1690
McDonough, James S., 1929
McEachern, John Adolphus, 527
McFadden, John Joseph, 926
McGarvin, Nelson, 358
McGee, Daniel W., 1092
McGourty, James Eugene, 1342
McGowan, John Patrick, 925
McGrew, Robert Liggett, 70
McIntire, David Blair, 1599
McIntosh, John Robertson, 2005
McKay, John Lloyd, 760
McKenna, Matthew Joseph, 2155
McKinley, Joseph S., 682
McLaren, Alexander Pourie, 1517
McLaughlin, Henry W., 682
McLaurin, John R., 682
McLellan, Angus A., 1261
McLoughlin, Thomas Joseph, 1864
McMasters, James M., 1929
McMurray, John W., 1929
McMurray, Ray James, 454
McWilliams, Frank, 69
McWilliams, William, 1600
Meeks, Charles Scott, 847
Mehegan, Daniel Joseph, 2084
Meisenheimer, Theodore F., 2084
Menzie, Robert J., 1599
Merchant, Cyrus B., 1176
Mermod, A., 676
Merrell, William H., 759
Metcalf, Tilford T., 358
Metts, Alfred H., 2155
Michaux, Jacob, 2154
Middleton, Thomas Smith, 358
Might, James, 1517
Miller, Aaron S., 358
Miller, Henry B., 1673
Miller, John D., 2083
Miller, Nancy M., 1176
Miller, Thomas E. R., 1013
Miller, Wellington Saxby, 1600
Miller, William Lynch, 1600
Millichamp, George Ernest, 682
Mills, Albert Beekman, 1091
Mills, Thomas Wesley, 1517
Minchin, David John, 1013
Minish, John Austin, 1440
Mitchell, Alexander J., 69
Mitchell, John Wesley, 760
Mitchell, Lester Charles, 759
Mitchell, Walter J., 2083
Modesitt, James A., 1343
Moliner, Dr., 676
Montgomery, Archibald, 1092
Montgomery, Charles T., 526
Montgomery, Frederick W., 1865
Moore, Franklin Thomas, 682
Moore, Henry Dare, 2005
Moore, Joseph H., 925
Moore, William Grant, 526
Morrow, Charles Dudley, 682
Morton, John H., 358
Mosby, William W., 1013
Mosher, Frederick R., 1343
Mueller, John C., 1176
Muller, Henry William, 1929
Munn, Stephen Benjamin, 1261
Munson, Mary F., 925
Murphy, William J., 760
Murray, T. J., 2005
Myers, Edward W., 70
Nash, George Allan, 453
Nash, William T., 1092
Nave, Thomas William, 2005
Nead, William Melandston 682
Nehrbas, John G., 926
Nelson, William, 2005
Nelson, Gustavus Judson, 1013
Neuhauss, R., 920, 1009
Newcomb, Albert Simon, 1091
Newman, DeWitt Clinton, 1672
Newman, Fernando Charles Putnam, 1176
Newman, Silas W., 453
Nichols, Charles Fessenden, 1517
Nichols, George, 262
Nichols, Henry Lambard, 925
Nichols, William Ellis, 1517
Nicholson, Horace W., 1516
Niles, John Olmstead, 1600
Nilsson, Peter, 1176
Noack, Paul G., 1091
Noble, Angus, 1343
Noble, Daniel C., 605
Noble, Henry Smith, 1175
Norcross, Winfield Scott, 682
Norderling, Karl A., 2154
Norris, Thomas Burnett, 1176
Noyes, Aaron Alonzo, 453
Nunn, George G., 1517
Oakley, Hewlitt Whitty, 1929
O'Connor, Maurice J., 2154
O'Donnel, James Coughlin, 1600
Officer, William B., 1261
Ogden, William Winslow, 1598
Oldfield, Homer V., 1599
O'Leary, Clement Dietrich, 1091
Oliphant, Eugene T., 1599
Oliver, S. J., 847
Oliver, William Andrew, 1440
Olshausen, Professor, 922
Olsten, William H., 1600
O'Neill, James Wilkes, 1598
Orr, W. H., 1517
O'Shea, Daniel Joseph, 1261
Osher, Joseph William, 1672
Osthues, Henry, 1517
Pack, Surgeon-General Philip, 676
Packer, Andrew Dixon, 76
Palelr, Calvin Jacob, 164
Palmer, Arthur Worrall, 2154
Pardew, Jesse B., 847
Parker, Gilbert L., 2005
Parker, John, 454
Parker, Walter C., 357
Parr, William P., 2155
Parrish, John George, 1092
Parsons, John, 1516
Pasmore, William Julius, 1261
Pastro, L., 755
Patterson, Bradford, 682
Patterson, Ella Averill, 69
Patterson, John Smallwood, 1600
Patton, Charles W., 682
Patton, William D., 1440
Pearsall, William S., 2005
Peck, Edward Sprague, 1260
Peck, Fayette Hamilton, 2004
Peet, Alexander J., 926
Peirce, Amos Hagar, 847
Pérce, Lewis A., 1598
Perier, Charles, 65, 260
Perras, Finzalam M., 1177
Perry, George Nelson, 1865
Perry, J. J., 759
Person, John Adam, 526
Petersen, H., 1171
Philleo, Willis Henri, 1440
Phillips, Frederick Milton, 164
Phillips, Jacob Waller, 1672
Phillips, William, 1672
Phinney, Lorenzo N., 1599
Pierce, George Loring, 262
Piersol, Joseph, 454
Pilsbury, John Milton, 1261
Pinero, J. D., 1256
Pipkin, James O. A., 1343
Pitman, Harvey Scott, 1177
Pittman, Henry Thomas, 926
Plymire, Harry Garrison, 1012
Polglase, William Austin, 1779
Pollmann, Louis P., 527
Pomery, Orange, 2004
Porter, Abraham W., 1176
Post, George, 1092
Potter, Theodore, 758
Potts, George Jerrald, 1672
Pound, Thomas Pope Dudley, 682
Powell, Horace Rennie, 454
Powell, Hunter Holmes, 453
Powell, Israel Wood, 1779
Powers, Charles L., 847
Prankard, William, 1092
Pratt, Herbert James, 682
Presley, A., 1177
Prevett, Joseph, 2155
Price, Marshall Langton, 1439
Purman, James Jackson, 1864
Rabuck, Samuel Henry, 1014
Ramsey, Robert Walker, 164
Rand, Isaac T., 2005
Randle, William H., 1342
Randolph, John Andrew, 1599
Rankin, James Edward, 2154
Ransom, Nathaniel Morton, 358
Rattray, Charles John, 1261
Rauch, William, 1598
Ray, Charles Willard, 1599
Ray, Hugh L., 1091
Rayl, Katherine Jane, 164
Raymond, Joseph Howard, 1090
Raynor, William C., 2005
Rea, Alexander McElroy, 759
Reagin, Clauway Garner, 358
Reber, Lyman Shoemaker, 1013
Reed, Calvin H., 1779
Reed, Dwight, 926
Reese, Charles E., 682
Reilly, James J., 1865
Resinelli, G., 1257
Reynolds, Dudley Sharpe, 681
Reynolds, Robert Davis, 682
Rhoads, George H., 925
Rice, Berryman S., 1517
Rice, William B., 1672
Richards, Alva, 1261
Richards, Davis Bruce, 527
Richardson, James Graeme, 682
Richardson, Percy N., 1092
Richmond, James, 925
Rigg, John J., 682
Rink, J. Aldo, 1261
Rising, Henry Martin, 2005
Rivers, Robert J., 1343
Robert, Albert Joseph, 1865
Roberts, Henry, 358
Roberts, Henry B., 1865
Robinson, Francis M., 1261
Robinson, Frank Neall, 2083
Robinson, Isaac S., 454
Robinson, James Arthur, 1929
Robinson, Reuben, 2005
Robinson, Robert, 1599
Rodenstein, Louis A., 681
Rogers, Lewis Stiles, 847
Rogers, Richard Runyan, 682
Rogers, Tristram, 1261
Rogers, William Bodde, 357
Rose, Herman, 925
Rosebrugh, Abner Mulholland, 760
Rosenbloom, Jules Maurice, 1091
Rosenthal, Charles Henry, 2004
Rosenthal, Prof. J., 524
Ross, Charles Ellis, 1439
Ross, Thomas B., 2154
Roth, M., 1594
Rowe, William H., 681
Rowan, James Albert, 453
Rowe, George Dodge, 453
Rubert, R., 1594
Ruble, John W., 760
Rude, Thomas J., 262
Rueda, J. G., 1256
Ruickoldt, Frederick Arthur, 2083
Rupp, John A., 1092
Russell, C. W., 454
Russell, Ernest Wesley, 606
Russell, William Perry, 454
Rutledge, George Grosline, 606
Rutledge, Hugh R., 1865
Ruyle, Henry Jerome, 1261
Sabine, Andrew, 846
Saffey, Lewis E., 1343
Salisbury, Jerome Henry, 1778
Sample, George Hoyle, 1673
Sanders, W. S., 454
Sandoe, Jacob L., 1091
Sapp, John A., 1261
Sargenakis, Spiro F., 2083
Sasse, F., 353
Satterlee, Frank Peck, 1672
Saucerman, Martin M., 1440
Saville, Sumner Carruth, 2005
Sawyer, Alvin P., 760
Sayre, David A., 1343
Scannell, James Joseph, 846
Scharnberg, Emil H., 1092
Schieve, Ulysses, H., 755
Schmidt, William D., 682
Schulin, Carl Augustus Ludwig, 1599
Schulte, Francis August, 1779
Schulz, Albert Erasmus, 1177
Schumacher, Diederick A., 453
Scott, Alexander Hamilton, 1260
Scott, Charles Brooks, 759
Scott, John M., 2005
Scovell, Josiah Thomas, 1865
Scribner, Charles Abner, 925
Searle, Frank Arthur, 1177
Seaver, Jay Webber, 1778
Seeley, Sherwood E., 262
Segur, Benjamin Avery, 1090
Selvey, Samuel Sylvester, 1779
Seyferth, Kurt, 760
Shadd, Alfred Schmitz, 1091
Schaeffer, Andrew H., 1673
Sharp, Benjamin, 526
Sharp, James Burton, 1092
Shaw, James Stott, 454
Shaw, William Henry, 1176
Shearer, Niles Harrison, 1864
Sheehan, Edward P., 1598
Sheehan, William John, 1672
Sheehan, William Joseph, 453
Sheffield, Thomas Edsmond, 1343
Shellenberger, Charles Neil, 1865
Shelton, Alois B., 1343
Shepherd, Mary A., 1092
Sherk, Harry H., 2083
Sherman, Emory, 164
Sherman, Thomas Treeo, 681
Sherwood, William H., 760
Shields, John Milton, 2083
Shipley, Henry C., 847
Shriner, Thomas, 1779
Siddons, James A., 454
Sidler, Emil M., 926
Siemens, Claus J., 1260
Siffert, Thurman Cecil, 1599
Sim, Joseph Walter, 847
Simmons, Adam B., 846
Simmons, Alpheus Butts, 1778
Simpson, James Ford, 846
Simpson, Wiley Thomas, 527
Singer, Alfred Eldridge, 847
Siple, William H., 1517
Sively, George A., 70
Skilling, John D., 846
Slaght, Andrew, 1092
Slafer, Carlisle B. Patrick, 1778
Sloan, Paul H. E., 2004
Slocum, Charles Elihu, 2154
Small, Alexander H., 1598
Small, James, 2154
Small, William Webster, 2155
Smiley, Walter Carl, 2083
Smith, Albert Carter, 454
Smith, Andrew Jackson, 164
Smith, Charles, 453
Smith, Charles M., 358
Smith, Fred Milton, 1672
Smith, John Miller, 358
Smith, MacPherson, 1176
Smith, Oliver Cotton, 1260
Smith, Rufus Franklin, 759
Smith, Thomas Perkins, 1865
Smith, Victor Hawthorne, 1517
Smith, William Breckenridge, 1176
Smith, William F., 1673
Smith, Winfield Scott, 69
Smock, Benjamin W., 69
Smothers, Blannerhassett H., 1013
Sovreeu, Frank S., 760
Speakman, Rachael T., 1343
Speedy, Hal Laureston, 2154
Spence, William F., 760
Spencer, George Warren, 1778
Sprague, Manley Horatio, 760
Sprague, Wilson Mellor, 1261
Sprengel, O. K., 676
Sprinzels, H., 1594
Sproule, William Johnston DeWitt, 2084
Spurlock, Thomas J., 760
Squires, Albert W., 527
Stafford, Isaac F., 358
Stagg, Frank Munson, 925
Stallings, Frank Leslie, 69
Stallsworth, Frank B., 1343
Standly, Zachary T., 70
Stanley, Joseph S., 2084
Stark, Charles Joseph, Jr., 846
Stark, George A., 1929
Starr, James Wellington, 760
Staton, Lee Whitfield, 2154
Stauffer, Annie W., 1091
Stavely, William R., 1343
Stees, Marie Jean, 760
Stephens, William Henry, 1092
Stetson, Robert Henry, 1672
Stettler, William A., 2155
Stevens, James M., 1929
Stevens, Orin, 1516
Stevenson, Mark Delimon, 1929
Stewart, Clayton M., 2083
Stewart, Orlando A., 155
Stewart, Robert Augustus, 1865
Stewart, William S., 2004
Stillians, Daniel Clark, 681
Stilling, Prof. J., 2003
Stover, George H., 1260
Straub, Charles Otto, 1261
Strohecker, James T., 164
Stroud, Harley A., 1673
Struthers, P., 1594
Sturdevant, Morton Grant, 262
Sturgis, Benjamin F., 1342
Suchard, Eugene, 524
Sudduth, William Xavier, 1091
Sullivan, Michael, 1176
Summers, Harvey Collins, 1517
Sutherland, Hugh Lewis, 925
Swain, Robert J., 1600
Swale, Clarence Milton, 1176
Swaving, John Harry, 262
Swanson, Robert Lee, 1261
Swisher, David Paul, 1092
Swogger, Lawrence Lonzo, 1092
Swygert, Sanders L., 1672
Talbot, Robert S., 69
Talbott, James E., 164
Tamlyn, John Edgar, 262
Tappan, Francis A., 847
Tarlton, John Elmer, 1177, 1673
Tate, Theodore T., 1261
Taylor, John Fullilove, 2154
Taylor, Thomas Walter, 760
Terry, Junius, 262
Thayer, Henry Dickinson, 1175
Thoinot, Leon-Henri, 1861
Thomas, Henry W., 1177
Thomas, Herschel G., 454
Thompson, Edwin C., 760
Thompson, James F., 69
Thompson, James P., 1177
Thompson, Landreth W., 1343
Thompson, Patrick H., 1929
Thompson, Thomas L., 453
Thornton, Oscar Fred, 847
Threadgill, John, 1928
Thurston, D. Morris, 605
Tidwell, Robert S., 358
Tilanus, B. W., 523
Tillinghast, E. L., 1177
Tillinghast, Francis Alvin, 164
Tircuit, Pierre Clement, 1092
Tompkins, J. Elizabeth, 2084
Torrence, William Green, 2005
Townes, Henry Howard, 2084
Townsend, Ollie L., 1865
Townsend, Stephen, 2005
Towsley, Matilda E., 1599
Travis, Robert B., 164
Trees, Paul E., 926
Treichler, Abraham C., 1013
Trent, Powhattan Green, 2154
Trice, Dabney Minor, 526
Trotter, Tillman Richard, 70
Troxell, Francis P., 2005
True, John Maxwell, 1261
Trueheart, Charles William, 69
Tucker, Alfred Bland, 2005
Tucker, William Payton, 358
Tupper, Charles Osborne, 1177
Turkopp, William H., 69
Turner, J. H., 1517

Turner, Lewis C. S., 2004
Turner, Query Monterey, 454
Turner, Thomas Sawyer, 1261
Upshaw, Harney, 1343
Upton, Hugh, 1343
Ure, Walter, 1599
Urich, John Henry, 1865
Vaillant, Leon, 68
Vanatta, Harry Briscoe, 759
Van Deren, John Harlan, 925
Vanderpool, Walston Burritt, 1091
Ven Deventer, A. E., 358
Van Gehuchten, Prof., 259, 680
Van Magness, Fred, 454
Vaughan, Roy A., 1261
Veitch, George, 1343
Vercoe, James, 262
Vermillion, William H., 70
Viehe, Casper H., 759
von Esmarch, Prof. E., 922
von Frankl-Hochwart, Lothar, 353
von Kraus, K., 523
von Langau, Caroline Morrosco, 1261
von Olshausen, Prof. Robert, 841
von Prowazek, Dr., 1174
Voorhees, Sherman, 1672
Wadsworth, Charles Curtiss, 358
Waechter, Adolph Ludwig, 1439
Wakeham, William, 2083
Waldron, Patrick James Greely, 925
Waldstein, Louis, 1439
Walker, Gustavus Freedom, 2083
Walker, William E., 759
Wall, Clarence Heathcote, 1440
Wallace, James Dick, 358
Waller, George E., 759
Walsh, Charles A., 1672
Walsh, Ralph, 526
Walsh, Thomas Burke, 2155
Walter, Max Johannes, 1517
Walters, James Perry, 1929
Walton, John Chappell, 1091
Walton, George O'Donnel, 760
Walton, Joseph, 1343
Walton, Lycurgus B., 925
Wamsley, James Winter, 358
Ward, Edward P., 70
Ward, Samuel Baldwin, 2083
Warder, Charles Barkley, 358
Wardner, Philip J., 681
Warner, Levi Francis, 526
Warner, Robert W., 1778
Warner, William, 1014
Warren, Claude Dearborn, 527
Warren, Isaac Shelby, 526
Warren, Samuel S. O., 1599
Washburn, Eber Leslie, 262
Washington, Henry W. M., 1013
Watts, Joseph Palmer, 926
Wayland, Albert Bledsoe, 605
Weaver, Joseph A., 1177
Webber, Amos Paterson, 1260
Wedding, Columbus V., 760
Wedge, Dudley O., 2005
Weeks, Benedict A., 454
Wegener, Henry Frederick, 758
Weinstein, Victor, 847
Weir, Fred Hamilton, 358
Weis, Henry F., 760
Wells, Carl David, 1600
Wells, James W., 1177
Wells, John Cary, 1779
West, Nelson G., 1865
Wetherby, Benedict Jones, 2155
Wetherill, Ira R., 1673
Wetmore, Jared D., 759
Wheeler, Jessie, 1864
Wheeler, Russell Henry, 846
Whims, Thomas Gay, 1091
White, Abner, 164
White, Emory Lincoln, 1672
White, William P., 358
Whitley, James Delaforet, 69
Whitlock, Francis Elias, 846
Wiestling, John Weir, 606
Wilcox, George Ansley, 1864
Wiley, Edward Maxwell, 357
Williams, George, 1673
Williams, John H., 1343
Williams, Walter W., 453
Willis, James R., 1865
Wilson, Burt Lynn, 454
Wilson, Joseph Hunt, 358
Wilson, Robert Ray, 925
Wilson, William G., 760
Winfrey, Calbe, 759
Wing, Ellery May, 1440
Winn, John Farmer, 453
Winnie, John V. E., 1672
Winzenreid, Charles Jacob, 1600
Witter, Merritt G., 1092
Wood, Henry Walton, 453
Wood, Joseph W., 760
Wood, Marmaduke Allen, 1779
Wood, Marvin C., 760
Wood, Philip Michael, 1260
Woodruff, Charles Edward, 2154
Woodruff, P. C., 527
Woods, Richard Flavel, 759
Wordin, Nathaniel Eugene, 1864
Wright, Jefferson D., 1600
Yarbrough, Hilliard J., 2005
Yeager, Cornelius F., 606
Younger, Rufus N., 2084
Zahn, A., 2080
Zerbe, Benjamin Frank, 2084
Zuckermann, J., 258

E

EAR, abscess of, (41) 1273
adenoid tissue in relation to middle, (27) 1358
and throat department of Royal Infirmary, Edinburgh, report, (23) 1687
catarrh of middle, chronic, (17) 1945
catarrh of middle, exudative, (110) 179
cerebrospinal fluid escaping from, in fracture at base of skull, (10) 1449
clinics for eye and, gleanings from principal European, (85) 1109
colon bacillus infection in disease of middle, (147) 86
complications in infections from zymotic fevers, (72) 469
complications in typhoid, (13) 272
contagious disease and effect on, (74) 469
diathermy for, technic for, (115) 1367
diseases, frequent, (2) 1028
diseases, functional testing in, (107) 1943
diseases of middle, and accessory sinuses, diagnosis of intracranial complications in, (35) 467, (27) 857, (70) 1108
diseases of upper respiratory tract and, among American factory workers, (100) 1274
diseases, radiotherapy in, (129) 1039
diseases, rational methods in treating, (64) 618
disturbances, ocular manifestations of, (62) 468
economics of eye, nose, throat and, (156) 1944
examinations of eye and, adaptation of pocket flashlight for, *240
focal infection of nose, throat and, cause of general infection, (109) 1943
furunculosis of, vaccines in, (22) 272
gunshot wound of, (44) 1192
headache from disease of middle, (101) 1459
hemorrhage from, (73) 469
infections of middle, with Vincent's organisms, (13) 1111
infections, vaccines in chronic, (18) 272
inheritance with reference to eye and, (68) 84
intranasal and pharyngeal infections in relation to eye and, (75) 469
middle, rhinopharynx and mastoid, *115
middle, treatment of, through eustachian tube, (64) 371
nose and throat conditions, (121) 697
phlegmons around, in scarlet fever, (136) 1040
physiologic physics and eye and, (69) 468
reeducation, (26) 944
secretions of middle, importance of disturbed metabolism in etiology of, (16) 272
streptococcus capsulatus infection, (31) 1273
surgery of nose, throat and, reduction of preventable disasters in, (126) 543
syphilis of inner, relative frequency of, *1471
syphilis of internal and middle, (105) 543
teeth as primary factor in diseases of nose, throat and, (28) 857
tuberculosis of middle, (12) 272
war injuries to, (53) 185, (45) 2103
wounds of, (47) 1197, (80) 1457
EARTHQUAKE in Italy, 676
EARTHWORM, pharmacological and chemical study of, (27) 1799
ECHINOCOCCOSIS in Rio, (84) 1803
in supraclavicular fossa, (119) 866
liver, bile pigment derivatives in, (105) 551
lung, (104) 285
lungs and pleura, (96) 1117
ovary, primary, (15) 1798
ECHITONE refused recognition by Council, 71—P
ECHTISIA refused recognition by Council, 71—P
ECLAMPSIA, (108) 179, (36) 1196, (150) 1879
at fourth month of pregnancy, (94) 2027
cesarean section in, (160) 87, (21) 1272
conservative vs. radical treatment of, (51) 2019
etiology of, experiments on, (4) 176
necrosis of cortex of both kidneys in, (27) 89
pathogenesis of, (79) 91
premature separation of placenta and, (41) 2023
puerperal, (34) 944
puerperal, gestational variety of, treatment of, (55) 1795
sugar content of blood in, (90) 1200
treatment of, (153) 276, (22) 1272
treatment of pregnancy kidney and, (100) 865, (113) 1201, (133) 2028
urine in, bacteriologic examination of, *145
ECTHOL refused recognition by Council, 71—P
ECZEMA, (65) 1689
articles on, 764
chronic, tar in, (58) 1456
dietetics of, in children, (32) 1613
hyperkeratotic, of palms and soles of feet, local treatment of, (29) 2018
infantile facial, reduction of carbohydrates in, (125) 1943
marginatum, generalized, (59) 1365
oozing, treatment of, (32) 1533
roentgenotherapy of chronic subacute, (89) 1274, (42) 1881
spreading through day nursery after vaccination, (45) 374
toilet of anus in hemorrhoids and, (72) 1620
EDEMA, angioneurotic, (8) 1530
angioneurotic of esophagus, (69) 1685
angioneurotic, intestinal, surgical significance of, (28) 1106
circumscribed lumbar-sacral, sign of deep chronic peritonitis, (36) 861
experimental, in frogs, analysis of, (15) 1794
gastro-enteritis complicated by, (25) 1191
malignant, 11 cases of, (9) 2022
of brain, (70) 371
paroxysmal, (48) 940
sodium bicarbonate in large doses cause of, *326
sodium chlorid retention and acidosis, *325
Southey's tubes in, 459
stasis and infection, (39) 1534
unexplained, and pemphigus in convalescence from scarlet fever, (11) 1112
EDINGER, Prof., 60th birthday of, 1859
EDUCATION: See also Colleges; Schools; University
EDUCATION, advances in, in Oregon and Tennessee, 1430—E
and memory, 219—ab
medical, and democracy, (80) 1360
medical, and medical profession, (60) 1032
medical, and study, (59) 2099
medical, conference on, 257, 852—ab
Medical, Council on, *2109
medical, 11 years progress in, 852—ab
medical, in China, 920, *1385, 1427—E, 1676—C, (50) 1685
medical problems in, (38) 82
medical, rigidity of curriculum obstacle to progress of, (81) 941
medical, scholarships in, 597—E
medical status of, (61) 1032
medical, waste in, (154) 698
medical, women's, in India, (51) 1685
preliminary, state requirements of higher, 1420
preliminary, universities adopt higher standards of, 1170
preliminary, value of, 1681—ab
report of committee on pedagogics and, 1028—ab
EFFUSIONS, chylous and chyliform, (111) 1039
in circulation, (118) 286
in joints, new treatment for, 1010
EGG, cholesterol metabolism of hen's, during incubation, (10) 2095
protein, idiosyncrasy to, in human beings, nature of, *1306
EGG, sea urchin, effect of weak and strong bases on rate of oxidations in, (21) 2096
EHRLICH aldehyd reaction for urobilin, (98) 179
aldehyd test for urobilinogen, (25) 774
differential reaction in urine in acute infectious diseases, (53) 1113
Roumanian decoration for, 1925
ELBOW, accidents with overstretching of wrist and, (47) 700
ankylosis of, arthroplasty in, *312
enlargement of lymph glands at, with chronic polyarthritis, (59) 1114
flexible metal splint adaptable to any angle of knee or, (55) 83
fractures about, adjustable splint for, *1755
fractures, immobilization in hyperflexion with early movements and massage, (132) 1111
trephining olecranon to drain, (65) 1802
ELDERTON method of control in testing value of new tuberculin, (13) 183
ELECTRIC and gas lighting, comparison of, 1080—E
apparatus for locating bullets in tissues, (51) 1506
current, oscillating, and radiant energy, (63) 1365
demonstration of spasmophilia in initial convulsions in children, (89) 203
devices in treatment of wounded, (28) 1881
discharge of isolated electric organ of astrape by oscillograph, (14) 1455
energies, new potentialities associated with, (145) 86
heated water-jacketed infant incubator and bed, *1068
heater, cheap, *241
heater for draining bacillus tuberculosis, *823
motor in bone work, (142) 1110
mouth light, (65) 1528
reaction during regeneration of nerves, (19) 1532
shock, literature on, 763
stimulation, intermittent, of organs and nerves over prolonged periods, experimental research on, (76) 947
studies in mammalian reflexes, (20) 1526
tests in injured nerves, (35) 1277
ELECTRICITY: See also Cautery; Electrotherapy; Faradic Current; Fulguration; High Frequency Currents
ELECTRICITY in pelvic diseases, (74) 1796
static, in medicine and surgery, (13) 698
ELECTRIZATION of nerve trunks, direct, results of, (25) 112
ELECTROCARDIOGRAM, human, influence of digitalis on T wave of, (18) 2169
in diagnosis of heart hypertrophy, (21) 1190
ELECTROCARDIOGRAPHY, clinical, (53) 375, 1938—ab
in congenital defect of right heart, (81) 2106
modern, (59) 1615
ELECTRO-CHEMICAL Ring, 1263—P
ELECTRODE for fulgurating larynx, (64) 541
ELECTROLYSIS in trachoma, (106) 1453
ELECTROLYTES, salt and nitrogen in urine, simplest methods of examining for, (94) 625
ELECTROMAGNET in prophylaxis of abdominal adhesions, (32) 279
iron-clad, for surgical purposes, value of U-shaped combination, (85) 179
removal of bullets by, (102) 1281, (40) 1456
ELECTROTHERAPY, (124) 1797
and ionized air in tuberculosis, (37) 90
and roentgenology in war time, (34) 1196
aneurysms, (128) 379
at base hospital, (17) 779
eye, technic for, (112) 1460
functional paralysis in wounded, (52) 2024
of wounded nerves, apparatus for, (50) 1036
present status of, (77) 1115

V. 19

ELECTROTHERAPY, radium and Roentgen-ray, recent work in, (35) 1196
ELECTROTHERMIC coagulation and roentgenotherapy in cancer, (159) 180
ELEPHANTIASIS, operative treatment of, (83) 1950
E-LEP-TINE, Miller's, 2006—P
ELIMINATION, radio-active waters for control of faulty, (76) 1032
ELLIOT operation for glaucoma, experiences with, (65) 274, (154) 276, (128) 697, (146) 868
surgical clinic of, (126) 697
EMBALMING on shipboard, practical method, (96) 1032
EMBOLISM, air, cause of death in subcutaneous tenotomy for congenital torticollis, (8) 692
air, fatal, in deformed lung in replenishing artificial pneumothorax, (16) 472
arm, operative removal of, (152) 2030
arterial thrombosis and, operative treatment, 3 cases, (17) 1940
arteriotomy for, (131) 951
brachial artery, arteriotomy for, (146) 952
central artery of retina, (28) 1112
fat, (112) 705, (36) 2172
thrombosis and, (132) 1361
EMBRYO guinea-pigs, observations on, (56) 1876
human, consisting of 20 segments, in extreme dorsal flexion, (83) 376
human, nine-millimeter, in margin of full-term placenta, (104) 2020
EMBRYOLOGY, scope of, 1736—ab
EMETICS, *2064
EMETIN and ipecac in intestinal amebiasis, *982
in amebiasis, (24) 373
in balantidiosis, (27) 1875
in cholera, (14) 861
in entamebiasis, (130) 778
in hemoptysis, (63) 475
in hemorrhage after operations on nose and pharynx, (63) 468
in pyorrhea, (110) 697, (94) 1274, *1567, (24) 2022
in pyorrhea, dosage of, 531
in pyorrhea due to amebae, *422
in pyorrhea due to endamebas, *553
in sprue, *53
in traumatic hemoptysis, 260
EMMENAGOGUES, *1499
EMMETROPIA, theoretical study of, (130) 626
EMOTIONS and alimentation, 749—E
psychoneuroses and, (67) 1452
EMPHYSEMA, (39) 541
deep and threatening, in skin and soft parts, treatment of, (67) 186
generalized subcutaneous (157) 544
generalized subcutaneous, in measles, (35) 1364
lung, chondrectomy for, (163) 627
ventilatory function of lung in asthma and, (3) 538
EMPLOYEES, injured, company not liable for services to, 1355—MI
injured, power of vice-president to contract for services of physician, 462—MI
physical examination of, of New York City department of health, (98) 543, (22) 1029
railway, instruction of, in practical application of first aid, (83) 2099
restaurant, medical examination of, by railroad, 522
systematic inspection of plant and, prevention of industrial accidents and sickness by, (57) 1685
EMPLOYERS, duty of, as to furnishing emergency treatment, 1521—MI
EMPYEMA, (134) 180
acute and chronic, (50) 695
intercostal thoracotomy in, (105) 619
latent, of nasal accessory sinuses, (30) 943
metapneumonic, treatment of, (97) 1803
parapneumonic, in children, 2 cases, (36) 1613
pleural, utilization of scapular musculature in, (99) 1803
pleurisy with effusion and dry pleurisy, interrelationship of, (88) 84
thorax, 229 cases, (94) 2020
traumatic, decortication for, with collapse of lung, (12) 1945
tuberculous septicemia and with tuberculosis of lung and intestine, (20) 2022
ENCEPHALITIS and acute ataxia, (23) 183
due to inhalation of fumes of gasoline, (84) 776
ENCEPHALOCELE, operative treatment of spina bifida and, technic for, (68) 623
ENCEPHALOCYSTOCELE, structure of, (15) 615
ENCHONDROMA, (29) 1191
scapula, (153) 180
ENDAMEBAS and pus pockets about teeth, 593—E
as cause of pyorrhea, emetin treatment, *553
ENDARTERITIS of aorta, nodular, about intercostal arteries, (83) 696
ENDO - ANEURYSMORRHAPHY (Matas), experiences with, (85) 371
ENDOCARDITIS, acute, (67) 179
infection cause of rheumatism, arthritis deformans and, (50) 774
infectious, diagnosis and treatment, *1742
malignant, types of, (79) 1615
pulmonic valve, due to micrococcus endocarditidis rugatus, (10) 1793
streptococcemia and, (39) 1192
streptococcic, autoserum injections in, (124) 180
tonsillectomy during acute, (127) 543
verrucous, etiology of, (95) 625
ENDOCRINE functions of gonads in male, abnormalities of, (1) 614
ENDOMETRITIS, puerperal, turpentine in, locally, (146) 1694
ENDOMETRIUM, hypertrophies of, *1831
ENDOSCOPE in treatment of nocturnal pollutions, *48
ENDOTHELIOMA of soft palate, (106) 619
superficial, (129) 867
ENDOTOXIN, diphtheria, in persistent diphtheric infection, (28) 861
ENDOTRYPANUM of Hoffman's sloth, (81) 84
ENEMAS, nutrient, (106) 1804
ENERGOMETER and volumbolometer in research on dynamics of pulse, (68) 1199
ENERGY, conservation of, centennial of discoverer of law of, (92) 284
exchange of, in live animal tissues, (5) 2167
metabolism of 10 hospital children, (3) 773
metabolism of 2 months' old infant fed on prolonged protein-rich diet, 2094—ab
requirement of new-born infant, (23) 1272
transformation of metabolism and, in atrophic infant, (76) 187
ENGELMANN splint, 1520
ENGLAND at war, medical notes on, 697, 1512, 2007
need of, for medical officers, 1172
ENGLISH universities, medical students in, 675
ENOPHTHALMOS, traumatic, (58) 91, (143) 1797
ENTAMEBIASIS, emetin hydrochlorid in, (130) 778
ENTERITIS, liver abscess and valvular heart disease secondary to, (106) 1460
ENTERO-ANASTOMOSIS, aseptic, (92) 784
ENTEROCOLITIS, elweissmilch in, (92) 1685
ENTEROPTOSIS: See also Gastroptosis; Ptoses; Splanchnoptosis
ENTEROPTOSIS, (119) 180
ENURESIS: See also Urine, Incontinence of
ENURESIS, epidural injections in, (124) 866
in children, (76) 179
ENVIRONMENT, response of organism to, 538—ab
ENZYMES of aspergillus terricola, (45) 467
production of, in saliva, adaptation of, to chemical stimuli, (139) 867
rate of oxidation of, (2) 2167
specific, in urine, diagnosis of pregnancy based on presence of, *1651
EOSINOPHILIA consecutive to resection of sciatic nerve, (58) 1198
EPIDEMICS, antisepsis in prophylaxis of, 69) 540
Austrian society to combat, 1860
EPIDEMICS, correct attitude toward, 185—ab
curve of, (14) 1945
in Austria, prophylaxis of, 1172
in Mexico, 1668
in war, (89) 376, 920, (32) 1112, (56) 1278, (49) 1535, (75) 2105
outbreaks in Russian factories, 1448—ab
protection against, at Vienna, (50) 185
spread from Russia, 356
EPIDEMIOLOGY, mathematical study of, (7) 1453
EPIDERMIS, structure of, in rat and guinea pig, and proliferative power of normal and regenerating epithelial cells, (59) 1108
EPIDIDYMIS, diseases of testicle and, (55) 857
EPIDIDYMITIS and orchitis, (97) 1032
and phlebitis with gonorrhea, (110) 1032
epididymotomy for acute, as outpatient procedure, (42) 1795
gonorrheal, non-operative treatment, (120) 180
gonorrheal, operative treatment, (89) 858
EPIDIDYMOTOMY for acute epididymitis, as outpatient procedure, (42) 1795
EPIGLOTTIS, incarceration of, (127) 1368
infection of larynx and, in children, tracheotomy, recovery, (15) 272
EPIGNATHUS, case of, (143) 627
EPILEPSY and alcohol, (139) 626
and alcoholism, hereditary relations between, (84) 948
blood changes during attack of, (123) 94
cause and logical treatment of, *1047
continuous clonic spasm of left arm caused by tumor of brain, (13) 938
Converse Treatment for, 1441—P
Croney's Specific for, 1344—P
crotalin in, (19) 177, 1096, (70) 1802
cure, Peebles', 455—P
cures, Waterman - Perkins - Kline, 847—P
Dostojewsky, study of, (24) 467
from metabolic disturbances in adolescence, treatment of, (104) 1796
head injury with oncoming, negative Abderhalden serodiagnosis, operation, drainage of cyst, (90) 1109
headache and intestine intoxication, (62) 1685
in children, (63) 618
injuries causing, damages for, 1934—MI
insanity due to, conviction of murder affirmed where defense was, 1187—MI
Jacksonian, with angioma racemosa of pia, *1575
May's Formula for, 1178—P
myoclonus and paramyoclonus due to, (98) 1118
nervous constitution and, (77) 1032
opium-bromid treatment of, according to Hechsig (111) 2028
Pasteur treatment of, 4 cases (138) 379
pathogenesis and nature of, (111) 942, (106) 1032, (114) 1109, (118) 1194, (103) 1274
pathogenesis and nature of, psychologic studies on, 464—ab
roentgenologic observations on, (109) 1274
spinal, (30) 1684
Towns' Treatment for, 683—P
traumatic, local chilling in, (76) 1458
treatment of, (119) 1194
EPILEPTIC Institute, 1094—P
EPILEPTICIDE, May's, 1178—P
EPILEPTIFORM seizures from camphor poisoning, 5 cases, (151) 1694
EPINEPHRIN, *1396
in bacillary dysentery, (63) 1801
in blood of infant at birth, (63) 1883
in cholera, (45) 547
in osteomalacia, efficacy of, (92) 1367
in typhoid, (52) 622
influence of, on coronary circulation of monkey, (46) 1528
infusion and vasomotor irritability, (3) 2167
EPINEPHRIN, injections of, to produce acute duodenal ulcers in mucosa of dogs, (51) 1451
pupillary reaction to, significance of, 1916—E
vasoconstriction produced by, inhibitory action of certain drugs on, (75) 1942
EPIPHORA, West intranasal partial resection of tear sac for dacryocystitis or, (32) 467
EPIPHYSIS of small trochanter of femur, separation of, *1234
osteoplastic operations involving, (43) 1364
EPISTAXIS in arteriosclerosis, (129) 1879
in children, (48) 281
EPITHELIOMA, basal celled, 1790—ab
hand, primary, (72) 618
jequirity in, (109) 866
lip, roentgenotherapy of, (59) 1685, (138) 1693
non-malignant, (36) 279
pharyngeal mucosa in fowl, (52) 1107
EPITHELIUM cells, normal and regenerating, of rat and guinea-pig, proliferative power of, and structure of epidermis, (59) 1108
of external sulcus spiralis, (127) 1202
regeneration of, histogenesis of chronic uranium nephritis with reference to, (65) 1795
EPULIS, hard and soft, *40
EQUINOVARUS, congenital, surgical treatment of long standing, (14) 2100
ERGOT, *1496
ERGOTHERAPY, by Kellogg-Bergonie method in obesity and other chronic disorders, (96) 1796
ERUPTION, creeping, extensive, (108) 1109
drug, (89) 1360, (41) 2172
ERYSIPELAS, (44) 184, (60) 2024
diphtheria antitoxin for, (61) 186, (123) 1460
ichthyol in, (51) 1456
iodin in, (102) 1951
serums and vaccines in, 1868
traumatic, 1267
ERYTHEMA, annular, 7 cases, (148) 868
nodosum, etiology and experimental production of, (34) 2097
with intense tuberculin skin reaction, (39) 2172
ERYTHROBLASTOSIS, fetal, form of congenital dropsy, 1506—E
ERYTHROCYTES: See Blood-Corpuscles, Red
ESCHYLUS, (95) 942
von ESMARCH, E., death of, 922
ESOPHAGOSCOPY, (49) 547
knee-elbow position in, (63) 1457
technic for, simplified and improved, (59) 1801
ESOPHAGOTOMY for removal of tooth plate, (17) 183
ESOPHAGUS, angioneurotic edema of, (69) 1685
atresia of, congenital, (90) 1032
atresia of, congenital, with fistula into trachea, (35) 781
bronchoscopy in direct examination of larynx, trachea, bronchi and, (105) 1274
cancer, intrathoracal, surgery of, (27) 279
cancer, operative treatment, (20) 1450
cancer, resection for, (105) 858, (145) 952
cancer, transpleural resection for, (100) 1804
foreign body in, *817
foreign body, safety pin impacted in, perforation of arch of aorta by, (14) 1111
foreign body, safety pin removed under suspension, (23) 857
gunshot wounds of, (68) 863
hemorrhagic erosions of, and associated lesions in ileus, mechanism of production of, (19) 1106
injury of, acute, (49) 281
obstruction due to enlarged thyroid, (22) 2100
perforation of, septic infection following, (71) 2099
plastic operations on, (54) 281
Roentgen technic in diagnosis of advanced lesions, (21) 466
stricture of, (12) 773
suppurating bronchial glands perforating into, (62) 1198
ETHER, action of, on microorganisms, (9) 860
administration, new method, *1754

ETHER, administration of chloroform and, by vapor method, apparatus for, *824
and chloroform, as general anesthetics, *904, (81) 1943
and oil colonic anesthesia, (102) 2020
drinking, 168
in surgical therapeusis, (8) 860
inflammability and explodability of, administration and effect on lungs and kidneys, (50) 178
insufflation anesthesia, (110) 619
intramuscular injection of, experimental research on, (97) 1538
intramuscular injection of, general anesthesia from, (104) 1623
intratracheal insufflation of, apparatus for, portable, positive-pressure, *138
mask, improved, *823
postanesthetic glycosuria influenced by diet, body temperature and purity of, (26) 272, 668—E
vaccine, sterilization of, (64) 475
vaccine treated with, unreliability of, (72) 702
ETHICS: See also Fee-Splitting; Physician, Profession; Practice, Contract
ETHICS, medical, history of, (95) 543, (111) 619
old code of, reproduction of, in Portuguese journal, 1332—E
ETHMOID, mucocele of, (100) 1453
operation, external, blindness incidental to, (61) 2019
perithelioma of superior maxilla and, (33) 2022
ETHMOIDITIS, homonymous crescentic scotomas with tooth root abscesses and, (99) 1529
ETHYLHYDROCUPREIN, 763
EUGENICS and physician, (39) 1527
legislation, 1442
EUSTACHIAN applicator, Yankauer, breakage and removal of, *430
tube, bacteriology of, (54) 1528
EVACUANTS, *1847, *2063
acting on rectum, *2063
acting on small and large intestines, *1986
alkaloidal, 1989
mercurial, *1986
oils as, *1910
saline, *1987
EVIDENCE, manufacturing of, by physician a punishable offense, 172—MI
EXAMINATION for physicians for Indian service, 161
periodic, and preventive medicine, 171—ab
periodic, of well persons, (46) 370, (91) 777
physical, in practice of medicine, importance of fundamental methods of, (105) 371
physical, of employees of New York City department of health, (22) 1029
questions, Arkansas, 1019
questions, Massachusetts, 266
questions, Oklahoma, 1350
refusal to submit to anesthetic for, 173—MI
state board, statistics of, 1423—E
what constitutes thorough, in chronic conditions and meaning of medical treatment, (84) 179
EXAMINERS, Medical, National Board of, *2113
Medical, State Board of, work of, (155) 276
EXERCISE and blood, 1501—E
blood changes after, (1) 855
body temperature and pulse-rate, 62—E
effects of, on normal and pathologic heart, (4) 1449
medico-mechanical, elastic resistance in, (48) 1535
therapeutic, apparatus for, (113) 551
EXOPHTHALMOS, pulsating, in woman of seventy-eight, (171) 628
pulsating, ligation of common carotid for, (107) 1281
pulsating traumatic, (8) 1357
EXOSTOSES, multiple, bony, with arrest of development and deformity of skeleton, (52) 945
multiple cartilaginous, *1642
on os calcis, (121) 705
on tibia, symptoms simulating loose body in knee due to, (145) 868
EXPECTORANTS, *2133
EXPECTORATION, control of, and antispitting signs, (48) 774
EXPERT TESTIMONY: See Testimony, Expert
EXPLOSIONS, shell, indirect effects of, (83) 1116
shell, internal hemorrhage from air shock of, (53) 1688
shell, total deafness due to, (38) 861
shell, transient paraplegia from, (9) 183
shells, traumatic amblyopia from, psychology of, (30) 1945
traumatic pressure action at, experimental study of, (40) 781
EXTRACT, alcoholic, of beef tonsils, superior to antigen for Wassermann reaction, (110) 377
blood platelets, experiences with, (56) 1619
blood platelets, in uncontrollable hemoptysis, (105) 704
glandular, and secretion of cerebrospinal fluid, (9) 1190
leukocyte, 54
leukocyte, aqueous, Hiss, in lobar pneumonia, (82) 696
leukocyte, aqueous, Hiss, protective value of, in acute infections in animals, (81) 696
of organs, active principles of, shown in kymograph tracings, (1) 2167
organic, therapeutics of, (11) 860
ovary and testicle, in impotency, (75) 1279
Pituitary: See Pituitary Extract
placental, production of abortion and labor with, experiments in, (131) 1110
thyroid, effect of, on blood pressure, (15) 694
thyroid, in anergic stupor, 2 cases, (4) 87
thyroid, in mental disorders, (8) 88
tissue, in hemorrhage, *1395
tonsil, in therapeutics, (72) 476
tonsil, influence of, on blood picture, (91) 1537
EXTRASYSTOLE, (108) 1538
EXTREMITIES: See also Arms; Legs
EXTREMITIES, dystrophy of joints of lower, due to syphilis, (11) 1611
frozen, conservative treatment for, (79) 1537
gangrene of, during puerperium, (6) 466
gunshot wounds of, nerves in, clinical and anatomic conditions in, (47) 1278
hyperemia in postoperative treatment of, lesions of, *1548
lower, impending gangrene of, futility of arteriovenous anastomosis in, (118) 1361
lower, reversal of circulation in, *873
lower, spastic paralysis of, physiologic significance of reflex phenomena in, (6) 943
osteoplastic operations on, with regard to behavior of epiphyses, (43) 1364
traction of lower, apparatus for securing, (126) 1530
trophedema of, or unilateral hypertrophy, (65) 1032
wounds of, (58) 623, 1863
EXUDATIVE diathesis, 1443
EYE: See also Special Structures of Eye; Vision
EYE, abdominal disease and symptoms, (80) 1622
accommodation, anomalies of, significance, (131) 697
accommodation, defective, reading without spectacles with, (34) 861
and illumination, (149) 620
and vision of fishes, 364—ab
annular opacity of anterior surface of lens after traumatism, (136) 697
anterior lens-ring following contusion, (144) 1797
atropin in, acute mania after use of, (107) 371
brain abscess and sinus thrombosis of otitic origin with symptoms in, (21) 857
burns of, from lime, 2158
capsulomuscular advancement with partial resection, new operation for, (22) 82
clinic, operations in Stanford University, (19) 774
clinics for ear and, gleanings from principal European, (85) 1109
EYE, conjugate deviation of, mechanism and differential importance of, (142) 552
contagious diseases in public schools of Louisville, (62) 371
ear disturbances and effect on, (62) 468
economics of nose, ear, throat and, (156) 1944
electric treatment of, technic for, (112) 1460
evisceration of, technic for, (10) 1357
examinations of ear and, adaptation of pocket flashlight for, *240
focal infection of teeth cause of involvement of, 2 cases, (74) 1685
foreign body in, metallic, extraction of, from vitreous by giant magnet, through scleral incision, (139) 697
foreign body in, tonguing for, (105) 1453
golf ball burn of, (14) 1362
heart reflex, (1) 1685, (15) 2017
heart reflex, clinical significance of, (109) 1460
hole in disc with vibration of overlying membrane, (146) 1797
hypophysis diseases and, (147) 1944
indirect intra-ocular lesions by firearms, 2082
infant, care of, (74) 618
inflamed, (78) 858
inflamed, diagnosis, (22) 774
inflammation of, spontaneous sympathizing, (10) 1940
inheritance with reference to ear and, (68) 84
injured, first aid to, (67) 618
injuries, (135) 2021
light and, in industries, (24) 177, (132) 276
light, effects of, on, (26) 2018
loss of, unusual accident causing, (109) 1453
motor imbalance and strabismus, present status of, (122) 942
movements, influence of, in judgments of number, (22) 1794
multiple sclerosis of brain and spinal cord with symptoms in, (105) 1118
muscle, exophthalmic goiter with complications in, 2 cases, (137) 697
muscle, extra-ocular, (80) 858
muscle in heterophorias, operative procedures of, (23) 774
muscle operation, extra-ocular, (122) 276
nervous irritation not transmitted, from one to the other, (48) 185
neuritis, monocular, 2 cases, (62) 1528
neuritis, with whooping cough, (120) 1945
nose and affections of, (35) 1273
nose and pharynx infections in relation to ear and, (75) 469
oculomotor paralysis from helminths, 2 cases, (44) 1618
oculomotor paralysis in Cuba, (87) 1803
operations, general anesthesia for, (5) 1530
paralysis due to tabes dorsalis, pathology of, (83) 776
paralysis, etiology and treatment, (168) 87
paralysis, flaccid, with cerebellar tumor and symptoms in, (132) 1202
paralysis of otitic origin, (20) 944
physiologic physics and ear and, (69) 468
postoperative insanity with reference to diseases of, (88) 1943
radiant energy, effect of, on lens and humor of, 668—E
reflex disturbances due to impacted third molars, (147) 1797
refractive errors, sociological view of, (155) 698
removal of, in orbital cellulitis, (15) 1195
sarcoma, epibulbar, with sections, (31) 616
sarcoma, intra-ocular, spontaneous rupture of globe in, (32) 939
specimens, macroscopic, preserving in natural colors, (12) 1357
speculum, green elevating, (108) 1453
speculum, new, (97) 858
spheric aberration, (110) 469
sporotrichosis of, chronic, (19) 82
EYE symptoms in diagnosis of obscure chronic sinus disease, (28) 1273
syphilis, effect of, on injury of, (32) 616
syphilis, salvarsanized serum in, subconjunctival injections of, *1649
syphilis, subconjunctival injections of salvarsanized serum in, (118) 1453
toxic effects of drugs on, and clinical manifestations, (33) 82
tuberculosis of, (34) 82
tuberculosis of, tuberculins and antituberculosis serum in, (41) 861
tumors, lesions of, (25) 2018
wounds, (98) 550, (91) 864
wounds during war, (52) 185, (60) 375, (87) 376, (31) 474, (81) 703, (37) 1881, (54) 1882
wounds during war, sympathetic ophthalmia from, (78) 864
wounds, increase of, over those in previous wars, (68) 1457
wounds of orbit and, in war, (98) 1280
wounds, treatment, (16) 278
EYEBALL, abduction of, contraction of frontalis in, (30) 939
blepharoplasty to cover, exposed 14 years, (134) 2021
enucleation of, (56) 623, (9) 1357
foreign bodies, (116) 1275
injuries of, (119) 1110
penetration of, by fish-hook, purulent meningitis following, (27) 616
removal of, (56) 1791
removal of, exenteration versus enucleation, (30) 616
tension of, significance of increased, (123) 276, (144) 1944
wounds of, penetrating, conservative treatment of, (99) 858
EYELASHES and brows, lice of, hydrogen peroxid for, 2007—C
EYELID, everter, new, *2130
gumma of lower, (103) 777
hematoma of lower, in infant, symptom of infantile scurvy, (3) 1195
ptosis of, congenital, Hess operation for, (87) 1032
ptosis of, progressive vagus-glossopharyngeal paralysis with, (72) 1274
EYESTRAIN and tuberculosis, (125) 180

F

FACE eczema, infantile, reduction of carbohydrates in, (125) 1943
Neuralgia of: See Neuralgia, Trifacial
pain in, and paranasal sinuses, (19) 938
paralysis occurring in treatment of syphilis, (48) 274
plastic surgery of, in French military hospitals, (24) 1945
protector and head mirror, new combined, (120) 85
shield for nose and throat work, (68) 618
surgery of, osteoplastic, *203
FACTORIES, Russian, epidemic outbreaks in, 1448
scientific management of, from psychologic standpoint, (30) 2171
FALL of 115 feet not fatal, 67
FALLOPIAN TUBES, chronic disease of ovaries and, conservative operative treatment, (132) 2028
diathermy in, inflammation of ovaries or, (91) 1200
etiology of disease of ovaries and, (92) 2026
hemorrhage of, postoperative, (126) 2021
inflammatory processes of ovaries and, operative treatment of, and relation to peritonitis, (51) 1619
operation to restore permeability to, (64) 1114, (43) 1197
pelvic inflammation originating in, operation in, 2091—ab
pus in, operation for, technic of, (128) 1944
spontaneous separation of left, (29) 89
sterilization by extraperitoneal displacement of, improved technic for, (103) 1460
suppuration in, perforating into bladder, (45) 1197
FARADIC stimulation in psychopathic patients, variations in sensory threshold for, (47) 83

V. 19

FARMER-FOLIN method for colorimetric determination of nitrogen, (73) 695, (28) 2096
Folin-Kjeldahl method of determination of nitrogen, (15) 2096
FASCIA FLAPS: See also Grafting; Transplantation
FASCIA FLAPS, inadvisability of wrapping nerve in, (39) 1623
FAT absorption from lower intestine, 153—E
absorption of protein and, after resection of one half of small intestine, (7) 271
absorption of protein and, in typhoid, (6) 2095
atrophy, symmetrical progressive, in children, Husler's work on, (117) 93
embolism, (112) 705, (36) 2172
estimation of, (92) 1877
in feces, estimation of, (53) 468
indigestion in infants, studies in, (4) 1105
indigestion, studies in, (49) 695
natural, influence of, on growth, (45) 1358, (31) 2096
tissue as filling for cavities in bones, (133) 94
tissue, dystrophy of, progressive symmetrical, (78) 784
vegetable, influence of, on growth, (25) 2096
FATIGUE as menace to health in industries, (23) 177
effect of, on heart, among soldiers, (56) 1535
eliminating devices, museum of, 145—ab
versus exhaustion, (61) 1801
FATTY degeneration of intima of arteries, (48) 1451
degeneration, problem of, 1001—E
infiltration a pathologic process, 1248—E
FEAR and disease, (18) 779
FECES, bacillus aerogenes capsulatus in, 916—E
bacillus aerogenes capsulatus in, in children, (49) 617
bacillus welchii spores in, effect of symbiosis on formation of, (73) 775
blood in, occult, improved test for, (36) 2102
chemical composition of diarrheal and normal, in infants, (3) 1105
chemical disinfection of, (35) 694
cultivation of bacteria from, technic of, (97) 1950
examining, for eggs, new method, (136) 620
fat in, estimation of, (53) 468
flora of, in typhoid, and various diets, (79) 776
in diarrhea, composition of, 1992—E
infants', character of, (59) 618
infants', fermentation test of, (106) 286
of kala-azar patients, bodies of unknown nature found in, (22) 621
protozoa encysted in, (118) 1367
tubercle bacilli in, diagnostic import, (115) 1282
tubercle bacilli isolated and cultivated direct from sputum and, new method, (33) 369
urea content of cerebrospinal fluid and ash in, with atrophy of infants, (26) 781
FECUNDATION, artificial, practical experiences with, (90) 1367
function of, side-lights on, 745—E
FEE-SPLITTING, 1447—ab
FEEBLEMINDED: See also Degeneracy; Delinquency; Idiot
FEEBLEMINDED aliens, (88) 1796
at naval dispensary barracks, Port Royal, (129) 1330
borderline cases, (1) 773
child, (109) 1878
children, Binet-Simon intelligence tests for, (122) 1460
children, psychiatric analysis in six, (91) 1117
in courts of New York City, (94) 942
in Ohio, 1681—ab
mental disturbances in, 1937—ab
Missouri's (100) 1194
ringworm of nails, scalp and trunk in girl of twelve, (140) 868
FEEBLEMINDEDNESS, definition of, 1603
extent of insanity and, and causes in Michigan, (113) 1878
physical basis for, (68) 1528
shortening the word, 1782
FEEDING: See also Diet; Nutrition
FEEDING experiments on rats, (1) 1189
FEET: See Foot
FEMORAL arteries, compression of, as test of functional capacity of heart, (69) 2095
vein pulse in heart disease, (22) 780
vessels, arteriovenous aneurysm of, following bullet wound through left thigh, (24) 545
FEMUR, epiphysis of small trochanter of, separation of, *1234
fracture of, birth, treatment and end results of, (56) 1273
fracture of both, compound, with laceration of soft parts, (30) 774
fracture of, compound, due to projectiles, treatment of, (5) 1879
fracture of, extension cast for, (96) 284
fracture of, extension walking apparatus for, (26) 699
fracture of, in field, (90) 1623
fracture of neck of, lateral pressure splint for, *239
fracture of neck of, treatment, (102) 275, (117) 619
fracture of, non-operative treatment, (134) 942
fracture of, plaster cast for, technic for, (88) 284
fracture of tip of internal condyle of, (20) 615
gunshot wounds of, treatment of, (39) 944
necrosis and spontaneous fracture of, osteomyelitis with, high amputation in, (41) 1614
osteochondritis of upper end, (3) 1611
sarcoma of, myeloid, with pathologic fracture, (6) 1530
FERMENTATION and agglutination reactions among streptococci, correlation of, (68) 1359
test in milk examination, (133) 276
tube, Durham, improved, (16) 466
FERMENTS in blood serum in infectious diseases, (44) 2097
defensive, of Abderhalden, (54) 1942
protective, in obstetrics and gynecology, (103) 1691
protective, in serodiagnosis, (81) 2025
protective, of blood, study of, by Abderhalden method after transplantation of organs, (30) 1030
protective, research on, (62) 1689
proteolytic, in diphtheria, (90) 1690
proteolytic, in serum, early diagnosis of pregnancy by, (102) 377
specific, against bacteria as detected by Abderhalden test, (66) 1358
specific, for typhoid coli group, production and detection of, (67) 1358
FERTILIZATION: See Fecundation
FETUS, abnormal position of head of, in primiparae at term, (82) 947
causes of death of, *95
death of, from rupture of velamentous vessels, (20) 1798
erythroblastosis of, a form of congenital dropsy, 1506—E
head, mechanism of pathologic engaging of, (104) 1201
heart sounds of, in placenta praevia, study of, (7) 1029
infection of, (90) 92
iodin in thyroid, (89) 1878
osteochondritis, (57) 1273
position of, effects of gravitation on, *498
teratisms, rare, sympodia, craniopagus, and acephalus, (136) 1110
FEVER, albumin catabolism in, genesis of, (52) 90
anomalous, (10) 88
in infants, protracted, nasopharyngitis cause of, (102) 1538
in lung tuberculosis, (29) 368, (111) 1281
in lung tuberculosis, therapy of, (98) 179
patients kept long on milk, importance of supplying salt to, (106) 2027
Puerperal: See Puerperal Infection
pulse, effect of pituitary extract on, (99) 1360
reactions induced by filtrable virus, (108) 1039
FEVER, three-day, epidemic of, and gnat extinction in prophylaxis, (61) 475
transitory, in new-born infant, pathology and treatment, (28) 473
zymotic, ear complications in infections from, (72) 469
FIBRILLATION, Auricular: See Auricle, Fibrillation
FIBRIN, (78) 695
FIBROID, degenerated and infected, marsupialization of, (26) 1798
ovary, solid, (114) 1194
radium for, 367—ab, (127) 1110
uterus, (137) 544, (92) 1453
uterus, and pyloric obstruction, (112) 1453
uterus, menorrhagica and radium, (74) 1032
uterus, pregnancy and labor complicated by, (84) 371
uterus, pregnancy complicated by multiple, (114) 1360
uterus sarcoma and, relationship between, (5) 1029
FIBROLIPOMAS, thighs, intramuscular, (95) 1367
FIBROMA, broad ligament, 2 cases, cho-anal, (56) 1795
kidney region, casting Roentgen shadow, 2 cases, (40) 700
nasopharynx, (63) 2019
ovary, (45) 2023
parotid, case of, *1238
tunica vaginalis, (91) 188
uterus, degenerated, and chorioepithelioma malignum complicating 2 months' pregnancy, (120) 1361
uterus, minute, during pregnancy, pain from, (94) 188
uterus, sarcomatous degeneration of, 5 years after roentgenotherapy for pressure and hemorrhage, *1653
FIBROMYOMA, huge, increasing in size during pregnancy, (100) 1367
uterus, surgery or radiotherapy in, (116) 1053
uterus, with twin pregnancies, intolerance of, (100) 1201
vaginal, (110) 1039
FIBROMYXOMA of nasopharynx, extensive, (38) 1273
FIBROMYXOSARCOMA in mesentery of boy of two, (99) 1367
FIBROSARCOMA, bilateral, of brachial plexus in steer, (126) 867
FIBROSCLEROSIS of penis, roentgenization in, 3 cases, (122) 469
FIBROUS tissue, origin and structure of, in living cultures of frog tissues, (67) 1795
FIBULA, congenital defects of tibia and, (9) 692
fracture and dislocation of upper end, with tibia intact, (97) 865
fracture of tibia and, compound comminuted, transplantation of bone in, (45) 1451
FIELD emergency case, suggestions for, (92) 1032
hygiene in, (96) 948, (51) 1801, 1926
latrines, (69) 1457
sterilization of clothing in, improvised arrangements for, (49) 1882
FILARIA, morphology of adult, found in Philippines, (107) 1529
FILARIASIS, (14) 177, (142) 184
FILMS in Roentgen ray work, clip for holding, during development and drying, (27) 1030
FINGER, chancre of, *582
fracture of, nail extension in, (44) 700
frozen toes and, treatment of, (91) 1623
giant growth in length of toes and, (90) 1117
injuries, celluloid tube in, *1647
nails, deformity of, developing at age of seventeen, (135) 626
supernumerary, inherited, (143) 1694
tendons, spontaneous rupture of, (57) 1036
trigger, (12) 277, (79) 371
what is accounted loss of half, 851—MI
FINSEN red light in small-pox, 73
FIREARMS, modern, and wounds, (30) 1456
FIRELESS cookers in hospital kitchen, (79) 1453
FIRST AID in railway surgery, meaning of, (100) 777
FIRST AID, instruction of railway employees in practical application of, (83) 2099
packet, anodyne in, (133) 1879
to injured, (82) 2099
to injured eye, (67) 618
treatment, symposium on, 1791—ab
FISH and shellfish poisoning, (34) 178
eyes and vision of, 364—ab
FISSURE, anal, complete, treatment of, (116) 705
FISTULA, anal, (106) 469, (46) 1451
anal, and ischiorectal abscess, treatment of, (92) 2020
anal, and male clothing, 1330—E
anal, in children, (2) 778
anal, new operation for, (87) 1274
anal, pathogenesis of, 1515
anal, swallowing sputum as factor in, (43) 1688
biliary, feeding of bile collected from, in obstruction of common bile duct, *1900
esophagotracheal, (122) 706
fecal, right scrotal, (12) 1798
perineal, (121) 1879
rectovaginal, inoperable, with stricture of rectum, left iliac colostomy in, (119) 1616
serotal fecal, right, (20) 861
tracheal, with congenital atresia of esophagus, (35) 781
FITS: See Convulsions
FIXATION abscess in treatment of various acute diseases, (122) 1282
FLAGELLATE, culturable free living, (25) 621
FLAP from abdominal wall shares in general obesity, (88) 2106
skin, pedunculated, to cover stump end, (131) 2028
FLASHLIGHT, pocket, adaptation of, for ear and eye examinations, *240
FLATFOOT: see Talipes Planus
FLEAS carrying bacillus pestis, length of time they are able to survive without host and reinfect with plague, (19) 1034, 1251—E
on plague rats, 126—ab
transmission of plague by, mechanism of, (20) 1034
FLEXNER'S antimeningitis serum in epidemic cerebrospinal meningitis, (7) 1683
FLIES as carriers of lice, (85) 1458
black, lesions from bite of, (56) 274
campaign against, in Detroit, 1919—E
campaign against, in Holland, 2080
prevention, maggot trap for, 1447—ab
warble, effect of, on leather, beef and milk, (10) 544
winter, and importance of disposing of horse manure throughout the year, 669—E
FLORIDA homeopathic March report, 1932
medical news, 598, 1082, 1770, 1921, 1996, 2074
state board December report, 1183
FLOUNDERS, body surface of, and gaseous metabolism, (24) 693
fasting, studies on, (72) 695
FLOUR, analysis of, by stains, (50) 1278
maize, milling of, and relation to health, 913—E
ration in Germany, reduction of, 1259
FLUID, passage of, through body of human stomach, (1) 2022
FLUOROSCOPY: See Roentgenoscopy
FOLIN-FARMER-KJELDAHL method of determination of nitrogen, (15) 2096
FOOD, advertisements for, and war, 2002
antineuritic, amount of, compared with carbohydrate, effect of, 1077—E
artificial, adaptation of, to human milk, 2165—ab
artificial, for hospital infants, (11) 1874
dangers of handling, by persons with communicable diseases, (26) 1527
determination of basal metabolism of normal men and effect of, (4) 2095
for populace in Germany, medical committee on, 841
hospital, (84) 542
increased cost of, in England, 842

FOOD, indigestible, and chilling of abdomen as factors in diarrhea, (71) **1279**
intoxication in children, (115) 372
intoxication in infants, metabolic disturbances of intestinal tract with reference to, (81) 1796
manufacturers and dealers in, care required of, **173**—MI
menace of drugs and, (82) **941**
oats for human, **843**
preservative, German decision in relation to, **1078**—E
problem, recent researches on, (93) 1458
proportions of, and diet deficiencies, **1077**—E
proprietary, in diabetes, (47) 857
ready-to-serve, analysis and cost of, ***1717**
specific dynamic action of, causes of, (82) 1876
substances, purified, nutrition with, (86) 1877
supply and beer production, (74) **1457**
supply and diet for sick, (59) 863
supply during war, (54) 475, (51) 862, (100) 949, **1069**, (83) 1280, **1339**, (60) 1689
supply in Germany, **357**, (100) 550, **604**, **757**, **844**, **923**, **2003**
supply of armies in field, **603**, **843**
supply, public, **355**
values, sanitary, in New York City, educational work in, (22) 1875
waste in army camps, **1172**
FOOT ailments, (35) 1451
arthrodesis in lateral deformity of, (6) 692
bones of, supernumerary, Roentgen study of, (3) 692
deformity of hands and, congenital, (32) 1875
deformity of hands and, in idiocy, (83) **784**
disorders, static, (**148**) 1362
eczematoid ringworm of hands and, (10) **615**
freezing of, glycerin-glue to prevent, (52) 782
frost bites of, treatment of, **1173**
frozen, among soldiers, **843**
frozen, treatment of, **1258**
hyperkeratotic eczema of palms and soles of, local treatment, (29) **2018**
injuries of, new method of reducing dislocation of big toe, (31) **178**
mycosis fungoides limited to one, (28) 2018
perspiration of, formaldehyd prevents, (94) 549
symmetrical cyanosis of hands and, thyroid treatment of, (156) 627
trench, (49) 1197), (17) 1532
trench, prophylaxis of, (29) 1618
trench, trophoneurotic changes main factor in, (22) 1455
unfavorable results from effort to save, **1446**—MI
weak, (116) 858
weak, treatment, (68) 1452
xanthosarcoma of dorsum of, pigmented, giant-cell, (41) 1364
FOOT AND MOUTH DISEASE, (52) 83, **1186**—ab, **1668**
and milk supply, **1920**—E
and skimmed milk, **1065**—ab
coccus found in, (72) 857
eradication of, **622**
in Frankfurt model dairy, (99) 1690
in Sweden, **1008**
legislative hearing on, **933**—ab
FOOTBALL and ball-fights, comparison of casualties at, **65**
FORAMINA, intervertebral, in man, (93) 618
FOREPS, (121) 1943
nasal dressing, ***1316**
time-saving, ***1318**
tonsil-seizing, and tongue depressor combined, ***1910**
use and abuse of, (123) 1879
FOREIGN BODIES, auditory canal, removing, ***1908**
bladder, (175) 87, ***1495**, (100) 1878
bronchoscopy for, in infant 3 months old, ***1654**
bronchus, (41) 1273
cases, series of, (108) 371
colon, multiple, (21) 2100
Crossen's method of precluding possibility of leaving gauze in abdomen, (117) 178
FOREIGN BODIES, electromagnet for extraction of fragments of shells, (102) **1281**
electromagnet in locating and extracting, (48) 2024
esophagotomy for removal of toothplate, (17) 183
esophagus, safety pin impacted in, perforation of arch of aorta by, (14) 1111
esophagus, safety pin removed under suspension, (23) 857
extracting, in wounds in war, **603**
eye, metallic, extraction of, from vitreous by giant magnet through scleral incision, (139) 697
eye, tonguing for, (105) 1453
eyeball orbit, (116) 1275
gastro-intestinal tract, (34) **541**
heart, scrap of shell extracted from interior of, (27) **2101**
impacted at bifurcation of trachea, extraction by bronchoscope, (15) 1945
in deep wounds may float out on foam of hydrogen peroxide, (35) 861
left behind after operations from medicolegal standpoint, (76) 863
localization of, (29) 184, (62) 282, (104) 2027
localization of, by radioscopy, (49) 1277
localization of, by Roentgen rays, (1, 3) 471, (14) 620, (91) 1280, (34) 1687
localization of, by stereoscopic rcentgenography, (**44**) **1882**
localization of, in body, (127) 551
localization of, in tissues, (20) 1455
localization of, in tissues by Roentgen rays, (4) 544
localization of metal, in tissues, (35) 1112
localization of metal, Roentgen ray in tissues, (46) 622, (54) 1198
locating, simple device for, (68) 186
lung, bronchoscopic removal, new method, ***1906**
lung, extraction of tack two years in, (76) 1884
lung, migration of, (**42**) **1364**
lung, turbinate in, (61) 1528
psoas muscle, (73) 857
rectum, **1101**—ab
rectum, turnip in, (20) 2100
respiratory tract or esophagus, **4** cases, ***817**
Roentgen-ray director for removal of, in tissues, (29) 861
Roentgen-ray removal of, (36) 2022, (23) 2171
stomach, (59) 178
stomach and intestine perforated by swallowed, (15) **1683**
submaxillary gland, (57) 371
telephone attachment in removing, (**44**) **179**
FORLANINI'S artificial pneumothorax, (38) 273
FORMALDEHYD, ***1241**
fumes, sterilization with, from evaporation of trioxymethylene, (36) 1881
gas, substitute for potassium permanganate to liberate, from water solution, **459**—C
polymerized, restoration of, **1182** prevents excessive perspiration of feet, (94) 549
FORTOSSAN, **456**—P
FOUNDLING home, problems of, (10) 1874
FOURNIER, Alfred, death of, **356**
FOURTH DISEASE, 4 cases, (100) 188
FOURTH OF JULY anticipations, **2138**—E
FOWLER position in appendicitis, pelvic abscess following, (61) **857**
FRACTURE, (43) 541
ankle, new type, ***318**
apparatus for holding fractured bones, ***2132**
apparatus for securing traction of lower extremities, (126) 1530
arm, extension splint for, (89) 284
birth femur, treatment and end results of, (56) 1273
bolt for treatment of, (38) 2022
bone graft, inlay, in joint tuberculosis and, (60) 1615
bone, in infants and children, fixation of (22) **1527**
bone wedging in, (60) **940**
clavicle, oblique, malpractice in treatment of, **1785**—MI
Colles' and Pott's, prevention of bad results of, **1523**—ab
Colles', arthritis of joints of hand following, 10 cases, (130) 1361
FRACTURE, compound, **1791**—ab
compound, aluminum skeleton splints in, (7) 2022
compound and suppurating, in war, mechanical treatment, (7) 620
compound, immobilization for, **(48)** 862
compound, in war, 12 cases, (32) 474
compound infected, care and treatment of, (37) 467
compound, interrupted cast for, ***585**
compound, treatment of, (119) 949, (66) 1615
diagnosis and treatment of rare, (39) 1875
diagnosis of suppurating arthritis after, in war, (35) **1800**
dressing for transportation, (47) 781
elbow, immobilization in hyperflexion with early movements and massage, (132) **1111**
elbow joint, adjustable splint for, ***1755**
extension after, in war, apparatus for, (114) 1691
femur, compound, due to projectiles, treatment of, (5) **1879**
femur, compound, of both, with laceration of soft parts, (30) 774
femur, extension cast for, (96) 284
femur, extension walking apparatus for, (26) 699
femur, in field, (90) **1623**
femur neck, lateral pressure splint for, ***239**
femur neck, treatment, (102) **275**, (117) 619
femur, non-operative treatment, (154) 942
femur, pathologic, with myeloid sarcoma, (6) 1530
femur, plaster cast for, technic for, (88) 284
femur, spontaneous, and necrosis of, osteomyelitis with, high amputation in, (41) 1614
femur, tip of internal condyle of, (20) 615
fibula, upper end, with tibia intact, (97) 865
fingers, nail extension in, (**44**) **700**
fixation of simple, (23) 615, (43) 700
gunshot, (38) 621
gunshot, long bone, comminuted, extension in, (11) 778
humerus, extension splint for, (19) 2171
humerus, lower end, multiple, open operation, (84) 1796
humerus, lower end, with displacement, (59) 857
humerus, metal brace for extension in, (19) 278
humerus, radial paralysis after, operative treatment, (116) 626
immobilization and adjustable extension of, apparatus for, (30) 1618
indirect, and injury of nerve tissue in war, (80) 375
jaw, lower, ***132**
joint, neighborhood of, 3 cardinal signs of, (129) 180
kinds of, **1269**—MI
knee, suppuration in, with or without, treatment, (48) 1036
leg, both bones of, ***308**
leg, compound, treatment of, (106) 1616
leg, damages for malpractice in treatment of, **1606**—MI
leg, in war, extension for, (97) **1201**
long bones, (76) 1115, (128) 1275
long bones, treatment of, (176) 87
long bones, wounds with, (98) 1038
Lucas-Championniere's method of treating, **459**
metacarpals, splint for, ***586**
multiple spinous process, hyperflexion of spine with, (43) 1451
nail extension for, experiences with, (84) 1199
open treatment of, indirect or external fixation in, (37) **370**
operative reduction, without buried retention material, (133) 942
operative treatment, (135) 942, (141) 1119, **1523**—ab
operative treatment, Lane's plates in, (116) **1282**
patella, (136) 942, (53) 2019
patella, exercising after, damages for second injury from, **365**—M1
FRACTURE, patella, method of retaining fragments in position, ***1752**
patella, symptoms and treatment, (98) **865**
plaster bridge casts for, in war, (53) 1801
radius, and rupture of radial artery in chauffeur, (4) 1797
radius, lower third, in children, with greenstick fracture of ulna, (37) **1030**
ribs, treatment of, (**46**) 1535
roentgenograms in diagnosis and treatment of joint injuries and, medicolegal aspect of, (87) 1796
roentgentherapy in severe, (**44**) 1273, (73) **1279**
semilunar bone, dislocation of, with fracture of cuneiform, (45) 700
skull, (**41**) 857, (109) 1685
skull, and drunks, **1995**—E
skull, base of, bilateral atrophy of optic nerve after, (109) 1538
skull, base of, with escape of cerebrospinal fluid from ear, (10) **1449**
skull, base of, with motor aphasia, ***1233**
skull, compound comminuted, (**141**) **620**
spine and pelvis, (170) 87
splint for, of upper extremity, (16) 698
splint, sheet lead, (56) 1198
temporal bone, petrous portion of, (18) 1612
tibia and fibula, compound comminuted, immediate transplantation of bone in, (45) 1451
tibia, apparatus for ambulatory treatment of, (80) 1615
tibia, spine of, (109) 858
tibia, upper extremity, (125) 85
toes, typical, (97) 703
treatment of, (36) 178, (105) 469, (106, 108) 1685
treatment of closed, plea against unnecessary operations, ***1633**
ulna, dislocation of head of radius with, corrected by **Lane** bone plate, (67) 1615
ununited, bone grafting for, (**49**) **541**
ununited, long-axial drilling of bone ends, (10) 779
ununited, with study of bone repair, (6) **81**
walking extension in, (77) **864**
FRAMBESIA in Ceylon, (3) 942
in United States, (42) 695
salvarsan in, (120) 286
tertiary, importance of, (21) 861
treatment, internal, (26) **1363**
FRANCE, clinical tour of, social end of, (78) 1943
FRANCO-PRUSSIAN war, 1870, medical memoires of, (121) **956**
FRANKLIN'S views on drinking beer, **1933**—ab, **2085**—C
FRANK'S segment capsules, adaptation of, for clinical use in recording pulse records, ***1305**
FRECKLESS, Barry's, **1346**—P
FREEMARTIN, Hunter's, note on a case, (19) 1276
FREEZING: See also Frost-Bite.
FREEZING, antitetanic treatment for cases of, necessity for, **1341**
glycerin-glue to prevent feet from, (52) 782
greasing feet to avoid, (43) 944
injuries, (41) **280**
injuries among soldiers, **843**
injuries and gas gangrene, (20) 278
injuries due to impeded circulation, (47) 945
passive ischemia for injuries from, (32) **861**
prevention and treatment of injuries from, (129) 551, (110) 949
treatment of, injuries, (44) 862, (83) 864, (26) 1112, **1258**, (79) 1537, (91) **1623**
ultraviolet rays for injuries from, (28) **699**
FREIBURG Method of Twilight Sleep: See Scopolamin-Morphin Anesthesia in Labor
FRENCH and Grecian medical association, **1338**
army surgeons, changes in uniform of, **1514**
journals, two, suspend publication until after war, **161**

FRENCH physicians refugees from war zone, emergency aid for, **1669**
provincial hospitals, appeal for surgical aids for, **1511**
Red Cross, activity of three societies of, **1340**
surgeons at front, **675**
FREUD and his school, (54) **1108**, (70) 1942
from surgeon's viewpoint, (93) 1943
FREUDIAN psychology and psychic research, (57) **1108**
school, conception of sexuality assumed by, (86) **1274**
FRIEDMANN'S treatment of tuberculosis, (84) 92, (60) **623**
treatment of tuberculosis in children, (75) **187**
treatment of tuberculosis kills five guinea-pigs, (37) **184**
FRITSCH, Prof., seventieth birthday of, **261**
FROMMER'S test for acetone, improved technic for, (62) **2025**
FRONTALIS, contraction of, in abduction of eyeball, (30) 939
FROST-BITE: See also Freezing
FROST-BITE, (35) **621**, (82) 1537, (28, 29) 1687, (54) 1947, (17) 2100
and cold-bites, **679**
feet, treatment of, **1173**
in present war, (29) 1363
more liable with waterproof footgear, (76) 2026
painful, treatment of, (6) **1454**
prevention of, (24) 861
trench, (13) 1195
FUEL and cancer in France, local incidence of, (13) **545**
FULGURATION in tumors of bladder, (94) 777, ***1050**
FULLERS' earth, adsorptive power and antidotal value for alkaloids, ***1838**
FUMIGATION, failure of, causes, (92) 179
literature on, **1348**
FUMIGATOR, iodin, (117) 1194
FUNGUS infection of wounds, (43) **1277**
FURNACE workers' cataract, **1186**—ab
FURUNCLES, metastasis of, (69) **963**
sulphurous acid in, (126) 180
treatment of, (53) **281**
treatment of abscesses of axillae and, (47) **1365**
FURUNCULOSIS of ear, vaccines in, (22) 272

G

G. G. Phenoleum Disinfectant, refused recognition by Council, **456**—P
GALACTOSE, assimilation limit for, **253**—E
test of liver function, (28) **273**
GALENICALS, untrustworthy, (100) 543
GALLBLADDER calculus, (18) **1940**
calculus, calcified lymph gland producing symptoms of, (125) **1110**
calculus, colic due to, tetany in, (62) **1278**
calculus, early diagnosis and operation for, (97) 543
calculus, early diagnosis and treatment (106) 543
calculus from transient thickening of bile (121) **1460**
calculus in 1,066 laparotomies for pelvic disease, (130) **1110**
calculus in Panama Canal laborers, (24) 1273
calculus, intestine obstruction due to, (40) 2022
calculus, modern views on, (30) 540
calculus, operative treatment for sagging liver and, (80) **1802**
calculus, reformation of, after operation, (38) **1031**
calculus, roentgenoscopy of, (42) 1031, (104) **1118**,
calculus, tray for holding, (115) 1194
Disease: See also Bile Tract disease, (130) **544**
disease of ducts and, pathology and diagnosis of, (83) 858
disease of pancreas and, direct examination of duodenal contents and bile in diagnosis of, (47) 280
incision for approaching, modified, (130) **471**
GALLBLADDER infections, surgical treatment of, (143) **1111**
mucous glands of, (107) 543
surgery, common errors in, (**53**) 1528, (47) **1685**
surgery of ducts of, (77) 1943
surgery of stomach and, anoci-association in, (69) 1032
when to drain and when to remove, (81) 1685
GALL DUCTS: See Bile Ducts
GALLSTONES: See Cholelithiasis; Gallbladder Calculus
GALVANIC current in inflammatory pelvic tumors, (93) 376
GALVANOCAUTERY knife in excision of breast tumors for microscopic diagnosis, **2092**—ab
GANGLION cells, nucleic acid compounds in Nissl bodies of, (41) 184
gasserian, blocking, for neuralgia, (94) **704**
gasserian, injection of alcohol into, for trigeminal neuralgia, (45) **616**
gasserian, irritation of, meningismus and suppurative labyrinthitis, (63) 1685
gasserian, operations for tic douloureux, technic and results, **1522**—ab
gasserian, removal of, (121) 1879
gasserian, resection of, for trifacial neuralgia complicated by facial palsy, (81) 469
neurosis, nasal, symptoms and treatment, (58) 1685
painful, in tendons, tendon sheaths or knee, (77) 375
sphenopalatine, injection of, in diseases of nose, (60) 1795
spinal, injection of alcohol into, (72) **1884**
GANGRENE, emphysematous acute, treatment of, (12) **779**, (30) 1363
gas, and injury from freezing, (20) 278
gas, and tetanus, (5) 1453
gas, researches on, **1173**
gas, subcutaneous injections of oxygen in, dosage and technic, (54) **2024**
gas, treatment of, (62) 945, **1862**
gas, treatment of, in English field hospitals, (46) 862
gas, vaccine therapy of, (68) 1801
in children, symmetrical, (27) 473
leg, traumatic arterial thrombosis with, (50) 2024
limbs, during puerperium, (6) 466
lower extremity, impending, futility of arteriovenous anastomosis in, (118) **1361**
lung, after wounds in war, (86) 1366
lung, intratracheal injections of medicated oil in, (96) 188
salvarsan in, seven cases, (47) 862
ultraviolet rays arrest, senile, (106) 551
without organic vascular disease, (94) 179
wounds, artificial gastric juice in, (57) **1535**
wounds, salvarsan intravenously in, (41) 546
wounds, treatment of, in war, (39) **862**
GARBAGE: See Waste
GARMENT workers, neurasthenia among, (57) **1528**
GAS and electric lighting, comparison of, **1080**—E
from exploding shells, intoxication from, (57) 1801
gangrene and injury from freezing, (20) 278
gangrene and tetanus, (5) 1453
gangrene, researches on, **1173**
gangrene, subcutaneous injections of oxygen in, dosage and technic, (54) **2024**
gangrene, treatment of, (62) 946, **1862**
gangrene, treatment of, in English field hospitals, (46) 862
gangrene, vaccine therapy of, (68) 1801
irritating, intoxication by, **2002**
phlegmon, (52) 281, (65) 1278
phlegmon after criminal abortion, (80) 91
phlegmon, differentiation and treatment, (82) **550**
phlegmon in pia mater, (47) 1535
phlegmon in war, (43) 781
phlegmon, nature and treatment of, (113) **1691**
GAS phlegmon, oxygen for, (51) **185**, (65) 1535
phlegmon, Roentgen differentiation of, (132) 951
poisoning, **2002**
GASOLINE followed by iodin sterilizes wounds, (41) **1618**
fumes of, encephalitis due to inhaling, (84) 776
GAS-PIPE fake, Oxypathor denied use of mails, **1600**—P
GASSERIAN GANGLION, injection of alcohol into, for trigeminal neuralgia, (45) **616**
irritation of, meningismus and suppurative labyrinthitis, (63) 1685
operations on, for tic douloureux, technic and results, **1522**—ab
removal of, (121) 1879
resection of, for trifacial neuralgia complicated with facial palsy, (81) 469
GASTRECTASIS, acute, ***146**, (64) **549**, (94) **1796**
from constitutional atony, (58) 1688
visible acute, during laparotomy, ***2055**
GASTRECTOMY, partial, and pyloroplasty in gastric ulcer, (119) **470**
GASTRIC JUICE: See Stomach Secretion
GASTRIN, distribution of, in body, (4) **2168**
GASTRITIS: See also Dyspepsia
GASTRITIS, chronic, (71) 1452
GASTROCOLOPTOSIS, surgical treatment of, (19) 1940
GASTRO-ENTERITIS, differential diagnosis of typhoid, appendicitis and, (126) 1194
edema complicating, (25) 1191
GASTRO-ENTEROPTOSIS: See Gastroptosis; Splanchnoptosis
GASTRO-ENTEROSTOMY, **2161**—ab
clamp, tongue depressor, (25) **1941**
for congenital pylorie stenosis, pylorus after, ***410**
for ulcers, (20) **1941**
indications and end results, (37) 273
stomach changes following, (128) 1530
GASTRO-INTESTINAL TRACT and joint disturbance, value of eliminative treatment, (57) **468**
bacterial activity in, (6) **2100**
cancer, roentgenotherapy of, deep, (84) 864
cases, series of, (88) 941, (16) **1612**
diseases, chronic, lymphocytosis in blood as sign of constitutional disturbance in, (82) 1622
diseases, diagnosis, (36) 1941
diseases, diagnosis and treatment, newer methods, (47) 178
diseases in infants, acute disturbances of circulation in, (26) 473
diseases, roentgenoscopy of, **1873**—ab
disturbances in tuberculosis from insufficiency of abdominal muscles, (60) **946**
foreign bodies in, (34) **541**
functions and sympathetic nervous system, (81) 618
glands, functional insufficiency of, in infants, (133) **1040**
hemorrhage, fatal, in newborn infant, (42) 1946
protozoal infections of, (106) 1360
roentgenography of, (147) 544
roentgenography in Trendelenburg position, (78) 2019
studies, ***569**, ***1737**, (23) 2096
surgical infections of, and asthma, (104) 1616
GASTROJEJUNOSTOMY, indications for, eighteen cases in Kashmir Mission Hospital, (26) 1276
GASTROPTOSIS, diagnosis and treatment of, (158) **627**
duodenum alimentation in atony, dilatation and, **1874**—ab
surgical treatment, (120) 1275
GASTROSPASM, roentgenoscopy in stomach atony and, (86) 941
GASTROTOMY, hair cast of stomach removed by, **367**—ab
GAZZETTA Medica Italiana ceases publication, **755**
GELATIN solutions, intravenous injections of, in shock, ***721**
GENERATION, spontaneous, (154) 1694
GENITALIA, cancer in female, mesothorium in, (80) **187**
disturbances, obesity and hypophysis cerebri disease, (130) 1033
external, wounds of, **1089**
female, functional disturbances in vegetative nervous system and, (99) **372**
female, origin and phylogenetic significance of, (14) 1798
influenza bacilli in, at term, cause of puerperal infection, (95) 2027
malformation of female, (137) 1202
puerperal, absorbing capacity of, (108) 1201
symptoms in, with appendicitis, (78) **187**
tuberculosis, (17) 856
tuberculosis in little girls, (72) 283
tuberculosis of male, (14) **472**
wounds of, (53) 1198
GENITO-URINARY diagnosis, (88) 1453
diseases, cystoscopic and microscopic diagnosis of, (42) 178
surgery, local and spinal anesthesia for, (14) 856
surgery, progress of, in 1914, (132) 942
system, exploratory operation on, never justifiable, (128) 1033
tract, causes of persistency and incurability of affections of, (64) 1528
tuberculosis, case of, (127) **860**
GEORGIA medical news, **598**, **838**, **1082**, **1252**, **1333**, **1770**
state board October report, **460**
GERMAN army, deaths in, **65**
Association for Infant Welfare, meeting of, **1438**
base hospital, experiences in, (80) **947**
central committee of Red Cross, equipment train for, **1174**
decision in relation to food preservatives, **1078**—E
medical officers, losses among, **258**
medical school for Chinese at Shanghai, (85) 864
military hospitals, impressions in, (40) **1881**
surgical congress held at Brussels, **1776**
women, government help for, during pregnancy and labor, **261**
food supply among populace of, **841**, **1009**
food supply in, (100) 550, **757**
plans financial aid for women in confinement, **65**
GERMICIDES, alcohol and iodin as, (65) 857
GERMILETUM, **155**—P
GERMS in breath and transmission of infectious diseases, (48) **1197**
GHEEL colony for insane, **1627**
GIANT growth in length of fingers and toes, (90) 1117
GILLIAM operation for deviations of uterus, **174**—ab, (115) 2020
GINSS' and Condradi's methods for differentiating diphtheria bacilli not reliable, (79) 2025
GLANDERS, human case of, (60) 618
GLANDS, Ductless: See Ductless Glands
GLASSES: See Spectacles
GLASSWARE, formula for cleaning, **168**—C
GLATZEL mirror, improved, (64) 1685
GLAUCOMA, (53) 371, (55) 617
diagnosis and, treatment of simple, (38) **1684**
Elliot trephining operation in, (65) 274, (154) 276, (128) 697, (146) **868**
etiology of, (166) 87
operative treatment of, (67) 84, (165) 87, (104) 275, (100) 858, (88) 1537
retained silk thread drainage from vitreous chamber to Tenon's lymph channel for, (102) 1528
sclerocorneal seton in, (142) 1797
sclerocorneal trephining for, (125, 127) 697, (84) 2099
simplex, treatment and indications for operation in, (27) 82, (183) 87
simplex, treatment of, (145) 1944
trephine operation for late, and infection from acute conjunctivitis (23) 82
Zorab operation for, or aqueoplasty, (101) 1529

GLENARD'S DISEASE: See Splanchnoptosis
GLOMERELLA cultures, development of alkalinity in, (22) 2096
GLOSSINA morsitans, food of, 443—E
tachinoides, transmission of trypanosoma brucei of Nigeria by, (31) 373
tachinoides, trypanosomes infecting wild, (4) 372
GLOSSITIS, parenchymatous, following submucous resection of nasal septum, (64) 2019
GLOVES, Rubber: See Rubber Gloves
GLUCOSE, in treatment of gunshot and shell wounds, (23) **1880**
metabolic relationship of proteins to, (43) **1358**
GLUTIN, serum albumin and, precipitation of, by alkaloidal reagents, (70) 695, (32) 1451
GLYCERIN and glue mixture to protect feet against freezing, (52) 782
germicidal power of, (105) **1529**
in bromidrosis, (11) **88**
GLYCOCOLL, rate at which ingested alanin and, are metabolized, (41) 1876
GLYCOGEN content of uterine mucosa, (133) 952
liver, resistance of pups to late chloroform poisoning in relation to, (68) 775
GLYCOSURIA and hyperglycemia in pancreatic diabetes, blood transfusion and, (3) **856**
in pathologic conditions, (102) **1623**
persistent, with symptom of functional liver failure from focal infection, (152) **544**
postanesthetic, purity of ether and diet, (26) **272**, **668—E**
GLYCOTAURO, **343**
GLYOXALASE activity of liver, influence of hydrazin on, (35) 1358
GNAT extinction in prophylaxis of epidemic of three-day fever, (61) **475**
GOAT serum in inoperable cancer, (3) **698**
GOITER: See also Hyperthyroidism; Thymus; Thyroid
GOITER, (57) 178, (85) 858, (116) 1616
as it was known 100 years ago, (48) **1031**
causes and prevention, (110) **276**
colossal, **1524—ab**
diagnosis and surgical treatment, (52) **178**
distribution of, in India, (22) 1363
effects of, and results of removal on circulatory system, (31) **467**
endemic, (29) 546, (70) **1948**
etiology of, in brook trout, (66) 1795
exophthalmic, (96) **1690**, (113) 1943
exophthalmic, and chronic thyroiditis, (65) **282**
exophthalmic, clinical features of, (69) 1193
exophthalmic, cytotoxic serums in, (73) **1884**
exophthalmic, etiology and symptomatology, (3) 1357
exophthalmic, in girl of seven, (28) 781
exophthalmic, medical therapeusis of, (137) **942**, (4) 1357
exophthalmic, mental changes in, **1850—E**
exophthalmic, modern phases and treatment of, (103) 1796
exophthalmic, operative treatment, (103) **704**, (53) **782**, (5) 1357
exophthalmic, operative versus conservative treatment, (118) **1691**
exophthalmic, pathologic anatomy of, (83) **1622**
exophthalmic, pathology of, (1) 1357
exophthalmic, physiology and pathologic chemistry of, (2) 1357
exophthalmic, roentgenotherapy of, (109) 1032
exophthalmic, roentgenotherapy of thymus gland in, ***1392**
exophthalmic, symptoms and diagnosis, (95) 1616
exophthalmic, symptoms of, with tuberculosis, (17) **472**
exophthalmic, treatment, (113) **619**, (65) **2104**
exophthalmic, with ocular muscle complications, 2 cases, (137) 697
in children, (121) **469**
GOITER, injection of boiling water into thyroid in, (76) 2019
intestinal disinfection, continuous, for, 9 cases, (43) **1618**
intrathoracic, large, operation for, (136) 1202, (44) **1800**
iodin, local injections, for, (107) **866**
medical treatment, (113, 114) 275
operations, **2161—ab**
ossification with, (58) 1036
prevalence and distribution of, in Washington, (111) 276
prevalence in Chicago, (29) 467
surgical treatment of, indications and contra-indications for, (138) 942, ***1896**
systemic, clinical treatment for, (95) **1109**
treatment of, (112) 275
GOLD, colloidal, in wounds in war, (40) 861
colloidal, test, in spinal fluid, in general paralysis, and mental diseases, (81) **1529**
colloidal, test, of spinal fluid in psychiatry, (9) **1940**
salts, action of, and radiotherapy in tuberculosis, (38) 1800
sol test, Lange, in cerebrospinal fluid obtained post mortem, value of, (28) **1191**
sol test, Lange, varieties of, in several loci of cerebrospinal fluid system, (16) 1683
GOLDBERGER diet in pellagra, (174) 87
GOLF ball, serious injury to eye from bursting, (14) 1362
GONADS, abnormalities of endocrine functions of, in male, (1) **614**
GONOCOCCUS, adult and infant types of, (42) 1876
culture, transplantation of, procedure minimizing difficulties of, ***585**
septicemia with arthritis following scarlet fever, 3 cases, (28) 82
serodiagnosis, specific and non-specific antigens in, (44) 939
studies on, (39) 2096
GONORRHEA, acute, in male urethra, (58) **488**
arthritis due to, (77) **1279**
chronic, (146) 544
chronic, in male, (53) 1795
chronic, posterior urethra and bladder in, 100 cases, (125) 1530
diagnosis, prognosis and treatment, microscope essential in, (86) 1109
diathermy in special electrode for, (109) 1201
epididymitis due to, non-operative treatment, (120) 180
epididymitis due to, operative treatment, (89) 858
evening clinics for syphilis and, (16) 1873
in women, (84) 275, (67) 1528
iritis manifestation of old latent gonococcemia, serodiagnosis of, treatment with bacterins, (109) 469
mercury succinimid in, intramuscularly, (69) **1528**
ophthalmia due to, treatment of, (79) 1106
pelvic infections due to, conservative surgery in, (138) 180
phlebitis and epididymitis complicating, (110) 1032
prevention of blindness from standpoint of trachoma, syphilis and, (77) 618
public health side of syphilis and, (136) 544
serodiagnosis of, (30) **177**, (91) 542, (23, 64) 1358
staphylococcus sepsis with aplastic anemia following, (78) 549
treatment, (42) 541
uterus, cervix, chronic, (92) 542
vaccine diagnosis and treatment of, (65) 375
vaccine, polyvalent diplococcus, (134) 551
vulvovaginitis due to, curability of, in little girls, (141) **868**
when cured, (96) **543**
GORGAS, major-general, **916—E**
medal established, **257**
prize medal, **1775**
GOUT, action of atophan and novatophan on iritis and, (39) 939
colchicum in acute, (126) 706
GOVERNMENT aid to housing and home owning, **1605—ab**
GOWERS, William, death of, **1594**, **1863**
GRADUATES examined by state boards during 1914, **1410**
GRADUATES, medical instruction, ***329**, **345—E**
medical instruction, report of committee to investigate, **854—ab**
young, and proprietary medicine, ***1819**
GRAFTING: See also Autografting; Transplantation
GRAFTING, autogenous, in bone defects, (76) **858**
bone, Albee's operation in Pott's disease, 26 cases, (8) 81
bone, for Pott's disease and ununited fractures, 49) 541
bone, histology of, (4) **81**
bone, in paralytic scoliosis, (7) **81**
bone, in surgery, (59) 940, (6) 1105
bone, inlay, (31) **1451**
bone, inlay, in fractures, joint tuberculosis and deformities, (60) 1615
bone, original surgical uses of, (112) 1032
fatty tissue, repair of blood vessels by, ***426**
homobone, in sarcoma of radius, (12) **2101**
skin, by Thiersch's method, local anesthesia in, (4) 1453
skin, in ambulatory treatment of ulcers, **465—ab**
skin, in ulcer, ***558**
thyroid, (26) **279**
thyroid and parathyroid, (25) **279**
GRANULOMA, coccidioidal blastomycosis and, differential study of, (29) **1613**
coccidioidal, immunity tests in, (20) 1190
coccidioidal, recovery from, (23) 540
fungoides and exfoliative dermatitis showing results of treatment, (46) 857
ulcerating, 2 cases, (117) 1039
GRAVES' DISEASE: See Goiter, Exophthalmic
GRAVITY, specific, of human body, (30) **1613**
GREASE, coating feet with thick, wards off freezing, (43) **944**
GREAT SALT LAKE, bathing in, metabolic influences of, (10) 1189
GRENFELL'S work in Labrador, **1510**
GROUND itch, treatment of, (27) **939**
GROWTH and nutrition, ***1539**
and overgrowth, (109) **1360**
influence of natural fats on, (45) **1358**, (31) **2096**
nutritive value of proteins in, and problem of protein minimum, (44) 1358
prenatal and postnatal, of infants, (13) 1526
protein intake and, (48) **1358**
studies on, (13) 1526
thyroid preparations and, in puppies and guinea pigs, (82) 784
vegetable fats and, (25) 2096
GUAIAC TEST: See Test, Guaiac
GUAIACOL, ***1072**
GUERTIN'S Nerve Syrup, **1094—P**
GUMMA of lower eyelid, (103) 777
GYMNASIUM work, systematic, to hasten recovery from wounds, (76) **1366**, (19) **2103**
GYNECOLOGY, anesthesia, general, (39) **374**
anesthesia in, (30) **89**
anesthesia, spinal, (40) **774**, (103) 1032
anoci-association in, (24) 774
antigonococcus vaccine and serotherapy in obstetrics and, (31) 781
balneotherapy at home in, (107) 551
bladder function after operations, **2092—ab**
conditions necessitating operation, (10) 466
diagnosis in, new efficiency systems and bearing on, (1) 176
evolution of, (5) 698
introspection in, (7) 466
operations on insane, (58) **857**
preventive, (123) 2021
protective ferments in obstetrics and, (103) **1691**
radiotherapy in, (78) 1115, (73) 2105
radium and Roentgen treatment in non-malignant diseases, (120) 1460
roentgenoscopy in, with intrauterine collargol injection, (127) 1361
roentgenotherapy in, (57) 1278
surgery and bad obstetrics, 11) **1272**
tubercular infections and, (36) 774
year's progress in, (53) **695**

H

HABIT-FORMING DRUGS: See Drugs, Habit-Forming; and also under Names of Drugs
HAGEE'S Cordial Extract of Cod Liver Oil Compound, **1262—P**
HAINES' test for sugar in urine, **930**
HAIR ball in stomach, **367—ab**, (34) 541
diseases of, Nagelschmidt modification of Kromayer quartz lamp in, (105) 1796
excessive growth of, and precocious puberty in girl of three, (67) 1115
grey, and disease limited to nasolabial area, (5) **471**
loss of, because of trichotillomania, ***1236**
medicolegal study of, run over by train or carriage, (67) 1535
of plants, stinging, **267—ab**
superfluous, etiology and treatment of, (26) 774
HALDANE on delicacy of organic regulations, **249—E**
HALES, Stephen, preacher physiologist, (83) 1932
HALL'S new antidote for mercuric chlorid poisoning in animals, ***736**
HALLUCINATIONS, diagnostic value of, (85) **777**
HALOGEN, combinations of, ***1240**
derivatives, ***992**
HAMBURG diphtheria epidemic, 1909-1913, (124) **2028**
HANAFORD, J. H., swindler, soliciting subscribers to American Bureau of Medical Research, **522**
HAND, arthritis of joints of, following Colles' fracture, 10 cases, (130) 1361
deformity of feet and, congenital, (32) 1875
deformity of feet and, in idiocy, (83) **784**
eczematoid ringworm of feet and, (10) **615**
epithelioma of, primary, (72) 618
injured by negligently cutting through bandage, **1870—MI**
muscles of, isolated atrophy of small, spinal cord in, (55) **2098**
obesity of, (88) **2106**
removal of, at wrist, what constitutes, **1870—MI**
phlegmons of, spreads by continuity, (18) 2170
Roentgen-ray keratoses on, of roentgenologist cured by radium, ***1394**
symmetrical cyanosis of feet and, thyroid treatment of, (156) 627
HANNOVER, A., Danish physiologist, anatomist and pathologist, centenary of, (86) 2106
HARELIP, inherited cleft palate and, information wanted on, **1347—C**
operation, modification of technic for, (26) **467**
operations on cleft palate and, principles governing ultimate results, (133) 1616
operative correction of cleft palate and, (103) 1616
present status of knowledge of similar deformities and, (131) 626
HARMAR, medical records of Indian campaigns of, (86) 1529
HARPER'S Weekly publishes series of articles on proprietary frauds, **137—E**
HARRISON LAW, literature on, **1023**
on habit-forming drugs, **459**, **518**—E, 532—ab, **611**, **834—E**, **849**, **911—E**, (68) 1032, **1019**, **1250**—E, 1264—C, **1442**, (39) 1941, **2007**, **2087**
on habit-forming drugs, additional regulations, **1002—E**, **2079**
on habit-forming drugs and alcohol, **1676—C**
on habit-forming drugs, important ruling on, **1770—E**
on habit-forming drugs, inquiries about, **685**, **1016—C**, **1096**, **1181**, **1265**, **1347**, **1676**
on habit-forming drugs, interpretations under, **2070—E**
on habit-forming drugs, notary fee in applications for license under, **2157—C**
on habit-forming drugs, official bulletins on, **1171**
HARVARD medical school, methods of graduate medical instruction used at, ***329**
medical school, new entrance requirements for, **361**

V. 191

HARVARD unit starts for Paris, 1009
HASSALL'S bodies, means to estimate number of, and size of cortex and medulla of thymus, (160) 380
corpuscles, formation and fate of, (29) 1451
HAT pin injury, cornea ulcer following, *659
HAWAII medical news, 1338
HAY FEVER, active immunization in, (115) 697, (84) 1274
calcium chlorid in, (41) 781
solution of ragweed pollen in, *655
HAYDEN'S Viburnum Compound, 359—P
HEAD, fetus, mechanism of pathologic engaging of, (104) 1201
gunshot wounds of, (1) 1033, (41) 1635, (79) 1529
gunshot wounds of, disturbances of hearing and vision in, (44) 1688
injuries, (16) 1196, (42) 1451, (75) 1685
injuries in war, treatment of, (1) 1453
injuries, surgical notes on serious, (34) 1276
injury of, with oncoming epilepsy, negative Abderhalden serodiagnosis, operation, drainage of cyst, (90) 1109
pain in, and paranasal sinuses, (19) 938
roentgenography of, system of topography for, (3) 1616
trauma of, homolateral hemiplegia after, (117) 2027
wounds of, by balls and fragments of shells, 2002
wounds of, spasms after orthopedic treatment of, (115) 950
HEADACHES, (116) 1943
due to disturbances of stomach, (2) 1793
epilepsy and intestine intoxication, (62) 1685
from middle-ear disease, (101) 1459
intranasal disorders and, (24) 1196
nodular, (49) 371
surgery of cranial nerves for neuroses and, (107) 1685
syphilitic, (48) 1456
HEAD-MIRROR and face-protector, combined, (120) 85
HEALTH almanac, Virginia, 1251—E
baby, conference, movement, cooperation of medical profession in, (29) 1875
boards and taxpayer, 253—E
boards, directory of, 1337
car, Louisiana, goes to San Francisco, 2079
center, Cincinnati, proposed plan, (38-44) 2019
Center, Norwood Civic Association, (108) 1194
conservation, cooperation of dentists and physicians in, (100) 1616
department of, aid of practicing physician to, (17) 2018
director in public schools, report of, (3) 1028
education, (113) 1530
education, public, in Maryland, 1166—E
examinations, periodic, value of, (46) 376
in Canal Zone, 1234—ab, 1605—ab
in China, 1354—ab
in Europe and relation to this country in immigration, 1607—ab
instruction in an Indiana county, 596—E
International Commission, organization and activities of, *1889
legislation, American Medical Association conference on, 768—ab
methods in Louisiana, past and present, *869
national asset, (113) 543
neighborhood education in, in New York City, 1664—E
of army, parliamentary investigation into, 603
of our army, 155—E
of summer resorts, 670—E
of working people and crowding, (26) 177
office, municipal, creation of, 1597
officer, county, ineligible, state board of health cannot remove, 933—Ml
officer, duties of, (100) 1685, (83) 1943
HEALTH officer, tuberculosis problem in rural communities and duty of, (13) 466
officer, whole-time county, value of, 333—ab
public, (112) 543
public, administration, cooperation in, *1220
public, administration in the state, result of U. S. Public Health Service investigation of, 932—ab
public, and natural prosperity, effects on, from rural depopulation and abnormal increase of cities, (33) 694
public, and physician, (35) 82, (53) 178, (108) 275, (124) 619
public, and science, (13) 1875
public, campaign, and public health nursing, (17) 1450
public, federation, Ohio, (68) 1876
public, high standard of, factors in establishing and maintaining, (137) 1194
public, occupational disease and, (25) 467
public, organizations, voluntary, cooperation and coordination of, (32) 694
public, private agencies working for, efficiency and economy in, (27) 694
public problems of, (151) 698
public, state regulation of, 770—ab
public, work, (6) 2016
service for Belgium, 678
state board of, cannot remove ineligible county health officer, 933—Ml
state board of, Indiana, (60) 695
state board of, power conferred on, 1100—Ml
superstitions and traditions regarding, 957—ab
wealth of, (72) 2099
week, national, 754
work, adequate, impossible under constitution in Missouri, (99) 619
work, courses and degrees in, *794
HEARING capacity, apparatus for study of, (107) 377
conservation of, (52) 774
disturbances of vision and, with gunshot wounds of head, (44) 1688
injury of, protection against, (62) 1620
HEART accidents in college athletics, (125) 1453
and kidney type of symptomatic psychoses, (49) 82
aortic insufficiency, fitness of soldiers for active service with, 163—ab
auriculoventricular rhythm with long A-C interval, (17) 1617
block, (55) 541, (125) 1202
block, Adams-Stokes' disease with, remarkable condition of pulse in, (16) 1276
block, functional, (7) 614
block with paroxysmal auricular flutter, (81) 187
blood pumping forces outside of, (58) 1365
chronic poisoning of lungs, kidneys and, results of operations on nose and throat in, (85) 2099
contractility of, clinical observations on, *1575
digitalis, effect of, on kidneys and, (117) 286
dilatation, acute, in child, asystole from, (24) 1617
disease, congenital, in infant, 2167—ab
disease, dyspnea in, 1938—ab
disease, femoral vein pulse in, (22) 780
disease, modern conceptions of, (79) 1685
disease, nervous and mental symptoms of, *652
disease of kidney and, from therapeutic standpoint, (1) 1028
disease of kidneys, arteries and, chronic, (58) 2099
disease of liver and, (75) 1199
disease, recent work on, (40) 1687
disease, treatment of, indications for, (73) 1615
disease, work in, 820—ab
disturbances in automatism of, (49) 90
disturbances of, dangerous and non-dangerous, (172) 87
dynamics of mammalian, (54) 90
dyspnea in diseases of kidney and, 250—E
HEART, effects of exercise on normal and pathologic, (4) 1449
electrocardiography in congenital defect of right, (81) 2106
enlarged, in child, total symphysis of, (65) 1883
extracardiac nerves and automatically beating ventricle, (84) 784
eye reflex, (1) 1685, (15) 2017
eye reflex, clinical significance of, (109) 1460
failure, acute, action of pituitrin on incompensate heart lesions and, (39) 273
failure during general anesthesia, causes, (92) 550
failure in child of 6 with atheroma of pulmonary artery and dilatation of right ventricle, (2) 1195
failure, strychnin in, (6) 1794
findings in wounded, (120) 950
forcing of, consequences, (75) 1802
foreign body in, scrap of shell extracted from interior of, (27) 2101
functional capacity of, compression of femoral arteries as test of, (69) 2025
functional diagnosis of, experimental study in, (91) 941
gallop rhythm, causes of, (57) 375
ganglia, pathologic anatomic changes in myocardium and, in scarlet fever, (69) 91
hypertrophy, electrocardiogram in diagnosis of, (21) 1190
impulse, origin and conduction of, experiments on, (13) 1794
in acute infections, (129) 276
in common types of liver diseases, (97) 1685
in life insurance, (70) 1615
independent ventricular activity during acute articular rheumatism, (13) 540
inhibition during vomiting evoked by stimulation of gastric vagus nerve, (17) 1794
irregularities, (55) 541
irregularities, diagnosis and management of extrasystole type of, (61) 1452
irregularity of, transitory complete, with clinical picture of arrhythemia perpetua, (65) 702
isolated, influence of oxalates, citrates and tartrates on, (16) 694
kidney function in renal and cardiac disease, (24) 1612
lymph, posterior, in chick, origin and early development of, (1) 2016
malformations, (107) 93
malformations, congenital, of large blood vessels and, infectious origin of, (20) 780
massage of, from below diaphragm, (45) 1535
mitral valve, unusual rupture of, (33) 1277
murmurs, functional and organic, differential diagnosis between, with reference to life insurance, (112) 1878
myoma in, of ox, (90) 188
nerve supply of, intramural, (67) 702
pathologic physiology of, (7) 539
perfusion with excretory toxins, (9) 2170
physical exertion and, among soldiers, (55) 700
quantitative reaction of, to ouabain, influence of temperature and concentration on, (71) 1942
rate, respiratory change of, causes, (19) 1527
rhythm, experimental study of, (108) 1638, (91) 1803
rupture of, in children, (10) 1454
small, in tuberculosis, *1291
soldiers, 524, (45) 622, (55) 700, (57) 1365, (77) 1366, 1513, (56) 1535, (75) 1536, (65) 1620, (76) 1621, (61) 1689, (48) 1882, (28) 2171
sounds, fetal, in placenta praevia, study of, (7) 1029
sources of energy for, 837—E
stab wound of lung and, (95) 1117
stimulation, (76) 275
strain among Sepoys, (10) 1797
sugars and action of, (15) 1455
surgery of, (97) 619
systole, periods of tension and expulsion in, (54) 375
thrombus in, cause of sudden death (160) 627
tobacco, (81) 1615
HEART, tricuspid insufficiency of, ventricular venous pulse, symptom of, (47) 1946
valvular lesions of, etiology, pathology and treatment, (128) 1616
ventricles of, communication between, (19) 545
wall, organized infarct of, cancer of pylorus, old obstruction in left coronary artery and aneurysm, (12) 545
weak, thermal baths with, (98) 1690
weakness, incipient, signs of, (92) 704
wound caused by fragment of grenade with extraction of projectile, 1927
HEAT, effect of, on transforming and binding power of blood, (66) 1108
humidity and working power, 444—E
production and smooth muscles, 349—E
puncture, experimental research on, (146) 380
ventilation and, (25) 177
HEATER, electric, cheap, *241
HEDIOSIT in diabetes, limitations of, 1165—ab
HEEL bone, exostoses on, (121) 705
bone, subperiosteal osteotomy of, for pes calcaneus, (124) 858
wire extension from, (98) 704
HEKTOEN'S and Rosenow's antigen in pneumonia, 2160—ab
HELENIN, (72) 1193
HELIOTHERAPY: See Sunlight Treatment
HELLER'S nitric acid test for albumin, (145) 627
HELMINTHS in bile ducts, (60) 1883
toxic action of, (46) 1035
HEMANGIO-ENDOTHELIO-BLASTOMA of stomach, 465—ab, (128) 1361
HEMATEIN bedside color test for occult blood, (57) 945
HEMATEMESIS, treatment of, (151) 627
HEMATOCELE, tunica vaginalis, spontaneous rupture of, (7) 778
HEMATOCYTOMETER, methods to standardize bacterial vaccines with reference to, *893
HEMATOMA and aneurysm, (58) 475, (118) 949
aneurysmal, secondary diffuse, after wounds in war, (53) 1036
following labor, unusual, (121) 1361
lower eyelid in infant, symptom of infantile scurvy, (5) 1195
perirenal, spontaneous, (118) 626, (116) 1202
with subcutaneous rupture of clitoris from fall, (93) 1117
HEMATURIA, (90) 371, (86) 1038 (98) 1943
causes of, (54) 1795
kidney, unilateral, 2161—ab
occupational, acute, decapsulation of kidney for, (71) 1536
solitary blood cyst in kidney with, (144) 379
HEMIPARESIS and hemiplegia as early symptoms of tuberculous meningitis, (17) 540
HEMIPLEGIA and hemiparesis as early symptoms of tuberculous meningitis, (17) 540
cerebral, sequel to diphtheria, (139) 1797
complicating thoracic aneurysm, (146) 86
extrapyramidal, (124) 85
following air concussion from shell bursting 6 to 12 feet from soldiers, (47) 185
homolateral, after trauma of head, (117) 2027
infantile, *1577
infantile, affecting left half of body, (2) 1944
HEMISPASMS, functional, (96) 1538
of lower lip, (114) 93
HEMOCHROMATOSIS (44) 1946
HEMOGLOBIN, bile pigments and, (10) 372
percentage of, and number of red corpuscles in blood, effect of work on, (27) 1795
pigment metabolism, working hypothesis of, (15) 1190
spectroscopic investigation of reduction of, by tissue reductase, (33) 1358
HEMOGLOBINOPHILIC bacteria, infections with, *1814
HEMOGLOBINURIA, MALARIAL: See Blackwater Fever

HEMOGLOBINURIA, walking cause of, (66) **702**
HEMOLYSIN, natural antisheep, in guinea-pigs' blood, (67) **1876**
natural, in human serum, (40) **2097**
HEMOLYSIS, effect of calcium chlorid on, (40) **622**
following transfusion of blood, (87) **1109**
of vaginal bacteria, influence of menstruation on, (73) **283**
HEMOPERITONEUM, traumatic, **2** cases, (29) **1196**
HEMOPHILIA, congenital, treatment of, (148) 552
decanted blood serum in, and after severe hemorrhage, (70) **1529**
familial, (151) 380
horse serum in, (59) 1192
HEMOPROTEUS, columba, sporogony of, (15) 1363
HEMOPTYSIS, **361**, **1791**—ab
and febrile reaction after diagnostic injection of tuberculin, (30) **90**
emetin in, (63) **475**
emetin in, traumatic, **260**
extract of blood platelets in uncontrollable, (165) 704
first aid in, for hospital and sanatorium patients, (42) **370**
HEMORRHAGE, abdominal, leukocytosis deceptive sign in, ***1294**
absorbable tampons to arrest, (31) **280**
among soldiers, arrest of, on field, (36) **1534**
autoplastic method for arresting aseptic thrombosis and, (65) **948**
blood transfusion for, ***1578**
coagulation of blood after, **1768**—E
decanted blood serum in hemophilia and after severe, (70) **1529**
ear, (73) **469**
emetin in, following operations on nose and pharynx, (63) **468**
fallopian tubes, postoperative, (126) 2021
gastro-intestinal, fatal, in newborn infant, (42) **1946**
horse serum to arrest, (42) 622
in sepsis, arrest of, after injection of fresh human blood serum, (102) **704**
in suprapubic prostatectomy, control of, (62) **857**
injection of blood in, ***332**
internal, from air shock of explosion of shell, (53) 1688
into ovary with severe dysmenorrhea, (24) 1034
kidney pelvis, occult, (86) **1537**
Lung: See Hemoptysis
meningeal, spontaneous, curable, in young, (43) **1946**
nephrectomy followed by, prevention, (75) 375
obstetric, blood pressure in prognosis with, (16) **1532**
occult, with stomach ulcer and cancer, (57) **1688**
ovarian, (41) 374
parenchymatous organs, tissue flaps to arrest, (115) 1201
pituitary extract in controlling, in surgery of nose and throat, ***301**
post-partum, (78) **1280**
retrochoroidal expulsive, following cataract extraction, (149) 1944
secondary, in military wounds, **163**, **524**
subchorioidal, following sclerostomy, scleral puncture for, (95) 858
submucous resection of septum for, (44) 616
suprarenal, peritonitis simulated by, (78) 1802
tardy, after wounds, in war, (36) 1456, (82) **2026**
testicle, spontaneous, (8) 778
tissue extract in, ***1395**
tonsillo-adenectomy and control of, (128) 1797
traumatic, from suprarenal capsule, syndrome simulating peritonitis after, (98) 1538
treatment of, **1862**
typhoid, predisposition to, (136) 552, (62) 1555, (79) 1621
uterus, and arteriosclerosis, (130) 1879
uterus, at and after menopause, (47) **1941**
uterus, at puberty, (89) 371
uterus, essential, **2160**—ab
uterus, pituitary extract in, (102) **696**
HEMORRHAGE, uterus, significance of, (9) 1526
ventricular, **1936**—ab
wounds, (70) 863
HEMORRHAGIC diathesis in typhoid, (136) 552, (62) 1535, (79) **1621**
disease of new-born infant, (103) 619
HEMORRHOIDS and hyperchlorhydria, (99) 543
cleansing syringe for anus to ward off and treat, (63) 863
eczema of anus and, toilet of anus in, (72) **1620**
injection treatment for, (12) **88**, (20) 1196
pressure at defecation cause of, (36) 781
strangulated, internal, death from, (38) **944**
syndrome, (135) **2029**
treatment of, open method, ***1136**
HEMOSTASIS, (70) **1036**
autoplastic, (65) **946**
in suprapubic prostatectomy, new method for, **242**—ab
safety pin for, in cranial surgery, (137) 1361
HEN as typhoid carrier, (85) **84**, **915**—E
HENOCK'S PURPURA: See Purpura, Henock's
HEPATIC artery, ligation of, arteriovenous anastomosis of portal vein wards off necrosis of liver after, (104) 625
HEPATOMA, atypical hemorrhagic malignant, (49) **2098**
HERBETTA Curine, **2006**—P
HERBIVOROUS and carnivorous types in man, (41) 1031
HEREDITY and predisposition in life insurance, (115) 85
as influenced by developmental periods of life, (86) 1453
cancer and, **1326**—E, **(54) 1451**, **1610**—ab
considerations of, (98) 469
in development of strabismus, (96) 858
influence of, on life insurance risks, (61) 1685
morphin, (134) 860
serology key to problems of, (47) **374**
HERMANN-PERUTZ and Wassermann reactions in syphilis, (81) **784**
HERMAPHRODITES from standpoint of legal medicine, (152) **552**
HERNIA adiposa, (78) 1529
appendicular, types and causes, ***819**
as result of a fortuitous event, 269—MI
caused by strain is an accident, **1935**—MI
diaphragmatic, **464**—ab
diaphragmatic, diagnosed by Roentgen ray, ***1237**
diaphragmatic, of stomach and omentum, (106) **1109**
epigastric, strangulated, ***427**
femoral, treating sac in radical cure of, (8) **277**
inguinal, autoplastic restoration of abdominal wall in, (103) 285
inguinal, in children, treatment of, (27) **781**
inguinal, modified Bassini operation for, (86) **188**
inguinal, novocain-suprarenin infiltration-conduction anesthesia in, (72) 2019
inguinal, preservation of iliohypogastric nerve in operation for, (36) 1030
inguinal, strangulated, in elderly, median subumbilical laparotomy in, (53) 945
inguinal, treatment of sac in, (137) 1797
obturator, (62) **91**
operations for, local anesthesia for, (76) 371
operations in Tavel's service, 1909-1911, (45) 1364
operations, overlapping of abdominal walls in, (35) 279
scrotal, fecal fistula through, (12) **1798**
sliding, (5) 1033
strangulated, recuperation of intestine in, (136) **2029**
strangulation in, of appendices epiploicae, (137) 2029
traumatic, (32) 1527
traumatic, and workmen's compensation act, (34) 1451
umbilical and postoperative, (95) **376**
HERNIA, umbilical and ventral, **465**—ab
umbilical, operation for radical cure of, in patient weighing **464** pounds, (125) **1110**
umbilical, pathogenesis of, **(21) 1940**
ventral, (50) 1107
workmen's compensation law and, (145) **380**, (86) 1360
HEROIN and morphin habits, relative frequency of, (127) 1797
habit, **1270**—ab
HERPES buccalis recidivus of Fournier-Emery type, (127) 85
zoster, acute alcoholic hallucinosis and general paralysis with, following intraspinous injection of salvarsanized serum, (160) 1360
zoster, etiology and experimental production of ***1968**
zoster of cephalic extremity, (11) 1793
HETEROPHORIA, (120) **1110**
false, and heterotropia, (141) 1797
ocular muscles in, operative procedures of, (23) 774
HETEROPLASIA in cancer of uterus, (2) **466**
HETEROTROPIA and heterophoria, false, (141) 1797
HEXAMETHYLEN tetramin, quarternary salts of, (87, 88) 1877, (19) 2090
tetramin salts and monohalogenacylated aromatic amines, (19) 2096
tetramin salts derived from monohalogenacylated simple amines, ureas and urethanes, (20) 2096
HEXAMETHYLENAMIN, action of, **169**
disinfectant for urinary tract, (106) **1118**, ***1157**, **1519**—C, (126) 2028
in typhus, efficacy of, (92) 1623
not given in typhus, (92) 1949
use and misuse of, (72) 1632
HEXOSES and pentoses, phenylosazones of, mutarotation of, (49) 1358
HIBBS and Albee operation for transplantation of bone in tuberculosis of spine, relative merits of, (44) 1941
osteoplastic operation for Pott's disease, ***398**
HIGH FREQUENCY CURRENT in angina pectoris, (133) **1797**
in bladder tumors, (58) 371
in high blood pressure, **850**
in keratoconus, (112) 469
HIP disease, management of convalescent stage of, (7) 1611
dislocation, congenital, (53) **617**
dislocation, rib transplantation in, (13) 943
dislocation spontaneous, (9) **1611**
dislocation, static, sequel of severe burn, (96) 1274
dressings about, apparatus to assist in application of, ***240**
joint, dislocation of, congenital, bloodless treatment of, (40) 2102
joint, dislocation of, congenital, pelvis deformed from, labor with, (32) **1799**
joint, juvenile deforming osteochondritis of, (63) **91**
tuberculosis, (6) 1811
tuberculosis involving bronchial glands, lungs, intestines and, (20) 1276
tuberculosis, mechanics and pathology of, in relation to diagnosis and treatment, ***1732**
HIRSCHSPRUNG'S DISEASE: See Colon, Dilatation, Congenital
HISS aqueous extract of leukocytes, therapeutic use of, in lobar pneumonia, (82) **696**
extract of leukocytes, aqueous, protective value of, in acute infections in animals, (81) **696**
HISTOLOGIC sections, paraffin with high melting point for, advantages of, (115) 1952
HISTORY cards, uniform and numbered for surgical patients on dismissal, (108) 551
case and examination of cases, plea for more careful, (48) 1685
medical, of war, authoritative, **1776**
HODGKIN'S DISEASE: See also Pseudoleukemia
HODGKIN'S DISEASE, (114) 1878
bacteriologic examination of enlarged lymph nodes in, (16) **1191**
HODGKIN'S DISEASE, corynebacterium hodkini in, complement-fixation studies with, ***1134**
literature on, **1266**
pathology and bacteriology of, (124) 1616
positive cultures yielded in, (96) 1194
treatment of, ***1953**
HOLARRHENIN and conessin alkaloids of holarrhena congolenses, action of, (32) **540**
HOLDER, medicine pipet, ***1318**
HOLMES nasopharyngoscope, protective shield for, (111) 1109
HOLOTHURIA captiva Ludw., physiology of, cuvierian organs of, (22) 693
HOMATROPIN, effect of, on vagus, (76) 1193
HOME owning and housing, government aid to, **1605**—ab
surroundings, (83) 941
HOMEOPATHY, (123) 1033
HOMOCHOLINS, physiologic action of, (77) 1193
HOMOGRADE thermometer, (99) **1943**
HOOKWORM DISEASE: See Uncinariasis
HORMONES and neohormones, clinical and experimental study of, (70) 375
in children's diseases, (21) 1112
in constipation from lead poisoning, (89) 1458
in diseases of skin, (22) 1112
in gynecologic and obstetric disorders, (20) 1112
in medicine, (19) **1112**
HORSE SERUM: See Serum, Horse
HORSERADISH, idiosyncrasy to mustard and, **1096**
HOSPITAL abuses, comments on, (78) 275
accident ward, efficient treatment of urgent cases in, **1791**—ab
accommodation for Indian wounded in England, **449**
Agnew's state, (111) 1796
ambulance service for, metropolitan, (89) 542, (53) 857
American ambulance, Philadelphia ward in, **1087**
American, at Neuilly, **1437**
American field, **2152**
Anglo - American, Wimereux, France, surgical experiences at, (11) 943
architecture, (94) 858
at home, observations at, (24) 1276
base, electrotherapy at, (17) 779
base, German, experiences in, (80) 947
base, German, only trained nurses accepted for, **1925**
base, in Moravia, impressions and experiences, (32) 1456
base, pathologic anatomic findings at, (25) 781
base, Roentgen-ray work at first western, (1) 860
base, surgical experiences at, (99) 550
Belgian field, need aid, **841**
Belgian Red Cross, of Dr. Depage, (76) 1615
British, for Balkans, **603**
carrier, experiences in, (15) 1880
Cincinnati General, (86) 1796
clearing, 6 months at, (36) **1800**
clearing, work of, during past 6 weeks, (19) 372
corps for fleet, best training for, (90) **469**
county, first tax payers', (78) 1453
county, what, how and why of, (61) **274**
dental service in, by appointment of interns, ***387**
efficiency, **519**—E, (18-20)
emergency, of Panama-Pacific exposition, (75) 1529
enthusiasm that built splendid, (114) 1796
equipment for medical men, need of better, (131) 86
equipment, improvised inexpensive, (31) 184
field, (46) **474**, (50) 700
field, asepsis and amputations in, (73) 702
field, company No. 3, report of surgical service at, (102) 179
field, experiences at, (102) 92, (69) 186, (88) 376, (97) 550, (131) 551, (86) 625, (89) 1280, (74) 2025, (91) 2026
field, in Belgium, (7) **544**

HOSPITAL, field, new ward tent for, (74) 1529
field, operations in, (112) 1691
field, pitching of, proposed method, (101) 1109
food for, (130) 86, (84) 542, (51) 857, (104) 1194, (83) 1453
for emergency cases for French, 1010
for industrial diseases in Italy, 2174—ab
for infants and hospitalism, 265—C
for infants, are they necessary, *1
for maternity cases, need for, (12) 1272
for service in England, John B. Murphy to organize, 1670
for soldiers of Belgian army and for colonial soldiers, 68
for soldiers, temporary clearing, at front, surgical notes from, (1) 698
for which counties are not required to appoint boards of managers, 1100—MI
Galloway Memorial, Nashville, (76) 1453
General Memorial, new era for, (134) 86
home, (121) 1033
home, experiment with tuberculous families, (52) 857
home, New York, an experiment, 75—ab
Hurley, new municipal institution, Flint, Mich., (80) 1453
in ancient and modern times, (115) 1952
insurance for, (82) 1453
intern year required at Northwestern University Medical School, 169
interns and war, 603
Japanese, in Hawaii, 1338
Johns Hopkins, sends unit to fight typhus, 1069
King George, 2003
kitchen, fireless cookers in, (79) 1453
liability for wrongful detention of patient in, 2089—MI
Massachusetts General, dietary routine in, (77) 1453
maternity, for Cuba, 1859
medieval, and leper houses, (12) 471, (17) 545, (17) 943
military, German, impressions in, (40) 1881
military, surgical experiences in, (3) 860
military, typhoid service in, (47) 622
model, displayed at Panama-Pacific Exposition, 1008
morbidity statistics, compiling, 238—ab
neuropathic and psychopathic, with reference to medical teaching, (2) 773
New Bethesda Maternity, in Cincinnati, (107) 1194
not liable for death from smallpox, 1934—MI
Olympic games building as, 161
ophthalmic department of general, (110) 1796
orthopedic training school and, at Vienna, 841
place of, in preventive medicine, (48) 857
poverty and sickness, (129) 86
provincial, in France, appeal for surgical aids for, 1511
psychopathic, after-care program and results of, 1913-14, (41) 82
psychopathic, Boston, analysis of recoveries at, (41) 273
psychopathic, diagnosis, margin of error in, (50) 83
psychopathic, duty of state to, (39) 82
psychopathic, high-grade defectives at, during 1913, (43) 82
psychopathic, progress of, on prophylactic side of mental hygiene, (40) 82
quarantine, in Bohemia, new, 1860
Roentgen-ray laboratory in, (83) 542, (50) 857, (84) 1453
Rostock, 8 years of children's ward in, (33) 781
safety from fire to helpless in, (86) 542
Samaritan, of Troy, N. Y., (82) 542
service in Turko-Balkan war, (64) 1452
ship, 68, (128) 620, 675
ship and needs of fleet, (100) 1943
ship, coastguard, 675
ship for fishing fleet, 161
ship returns, 1337
small, administrative practices in, (112) 1796
HOSPITAL, small, raising funds and financing, (87) 542
small, 2 months' service in, (94) 1193
small unendowed, conduct of, (110) 1194
social service, (63) 1876
Southern Pacific Company's railroad, (108) 1796
standardization, proposed method of, (49) 857
state, for insane, medical organization of, (109) 1796
state, general government of, (81) 1453
superintendent, past, present and future, (85) 542
Toronto, social service in, 1354—ab
train, 1171, (70) 1458, 1559, (74) 1620
train, operating in, (78) 1537
trains donated to Germany, 1776
tuberculosis, county, referendum campaigns for, (63) 274
tuberculosis, local, value and necessity for, (41) 370
units for Europe, more, 1669
University, Children's, of Vienna, (30) 82
voluntary, and wounded soldiers, 843
war, Roentgen-ray theater in, (26) 1880
Women's Imperial Service League, (2) 1616
HOUSES, cheap, in 1914, 1671
HOUSING and home owning, government aid to, 1605—ab
and relation to climate and health, (78) 618
HUMERUS, fracture, extension splint for, (19) 2171
fracture, lower end, multiple, open operation, (84) 1796
fracture, lower end, with displacement, (59) 857
fracture, metal brace for extension in, (19) 278
fracture, radial paralysis after, operative treatment, (116) 626
gunshot wounds of, treatment, (33) 1364
HUMIDIFYING apparatus, 611
HUMIDITY, heat and working power, 444—E
indoor, 1766—E
HUNAN-YALE Medical School and Hospital in Changsha, China, 1676—C
HUNGER contractions, gastric, cause of variations in, with age, (23) 1794, 1871—ab
contractions of rabbit's stomach during, (20) 694
in infants after feeding, onset of, *1822
HUNTER, WILLIAM, and his work in midwifery, (7) 943
HUSLER'S work on symmetrical progressive fat atrophy in children, (117) 93
HYDATID CYST: See Echinococcosis
HYDATID MOLE: See Deciduoma Malignum
HYDRAMNIOS in twin pregnancy, 850
HYDRASTIS, *1498
HYDRAZIN, influence of, on glyoxalase activity of liver, (35) 1358
influence of, on utilization of dextrose, (34) 1358
HYDROCARBONS, higher aliphatic, preparation and melting points of, (79) 1876
narcotics, *825
HYDROCEPHALUS, chronic, hypopituitarism in, *395
chronic internal, pathology and treatment, (78) 1037
cisterna-sinus drainage in, 1790—ab
developing after birth and contracted pelvis, relation of, *816
internal, (65) 548
internal, with specimen, (145) 276
HYDROGEN dioxid, action of sugar and, on anaerobes, (98) 2027
dioxid in tetanus, (101) 625
dioxid in wounds, (44) 1456
peroxid, *1241
peroxid as household remedy, 1167—ab
peroxid for lice of eyelashes and brows, 2007—C
peroxid, foreign bodies in deep wounds may float out on foam of, 603, (35) 861
Roentgen-ray tube, (25) 1030
HYDROLYSIS of organic phosphorus compound of wheat bran by enzyme phytase, (74) 1876
of phytin by enzyme phytase in wheat bran, (73) 1876
HYDROMETRA, case of, (23) 1798
HYDRONEPHROSIS, (77) 187, (120) 1194
and infection, (75) 624
developing 21 days after laparotomy for large pyosalpinx, (27) 1034
experimental, (51) 1876
experimental, functional changes in, (43) 939
HYDROPHOBIA, case of, (18) 774, (82) 1943
in Iowa, (52) 1192
in South Carolina, (138) 276
John Ardern's description of symptoms of, in 14th century, 152—E
prevention and treatment of, by drugs, experimental work in, (102) 1616
quinin in, (70) 775, (77) 776
serodiagnosis of, (17) 1106
HYDROPHTHALMUS following trauma, (104) 1453
HYDROPS: See Dropsy
HYDROTHERAPY: See also Balneotherapy; Baths
HYDROTHERAPY in mental diseases, *1650
in urology, value of, *101
HYDROTHORAX, double, chronic interstitial nephritis with, 1101—ab
HYGIENE among soldiers, (137) 1693
and sanitation at Panama-Pacific Exposition, 1669
in field, (96) 948, (51) 1801, 1926, (90) 2026, (59) 2103
in prison camps, (49) 781
machinery hazards and, (20) 177
personal, articles on, 1096
public, and war, 1437
rural, and sanitary privy, (92) 777
war, measures for, 355
HYGROMA of semimembranous bursa, (76) 375
HYMEN, (78) 93
HYNSON, WESTCOTT AND CO. advertisement, 1262—P
HYPERCHLORHYDRIA and hemorrhoids, (99) 542
HYPEREMESIS, etiology and treatment of, and other forms of pregnancy toxemia, (17) 1798
HYPEREMIA in postoperative treatment of lesions of extremities and thorax, *1548
HYPERGLYCEMIA and glycosuria in pancreatic diabetes, blood transfusion and, (3) 856
diabetes without, 1661—E
of pancreatic diabetes, influence of pregnancy on, (25) 694
psychic, 2073—E
HYPERNEPHROMA in child, (31) 82
kidney, (50) 371
multiple pulsating tumors secondary to, (26) 1196
suprarenal, and adenoma of hypophysis, polyglandular syndrome with, (17) 1196
HYPERPIESIS and arteriosclerosis, (37) 1687
HYPERSUSCEPTIBILITY: See Anaphylaxis
HYPERTENSION: See also Blood-Pressure, High
HYPERTENSION, arterial, (126) 1368
HYPERTHYROIDISM, boiling water in, (117) 469, (117) 1361
etiology, symptomatology and treatment, (144) 544
from standpoint of military medicine, (84) 1116
serotherapy of, *413
surgical treatment of, (81) 2019
HYPERTHYROIDOSIS, (28) 467
HYPERTRICHOSIS, roentgenotherapy of, (89) 92
HYPOGLOSSAL, vagus and sympathetic nerves, division of, by bullet, with formation of arteriovenous aneurysm of carotid, (18) 2100
HYPOPHYSIS CEREBRI, acromegaly and adiposis in diseases of, (122) 1453
comparative anatomy of development of, (82) 375
diabetes insipidus and lesions of, 1078—E
disease and functional diagnosis of polyglandular diseases, (52) 375
disease and obesity, basal metabolism in, studies on, (53) 1431
HYPOPHYSIS CEREBRI disease, eye symptoms of, (147) 1944
disease, references on, 2158
disease, symptom of, (104) 1032
Extract: See Pituitary Extract
functions of, (35) 546
genital disturbances and obesity in diseases of, (130) 1033
growth, operated on, through nose and sphenoid, (79) 1685
medical treatment of, diseases of, (112) 942
paranoidal trends and disturbances of, *658
roentgenography of sella turcica and disease of, (130) 94
tumor of, insured having, 2089—MI
HYPOPITUITARISM in chronic hydrocephalus, *395
HYPOTHYROIDISM, chronic intestine stasis associated with Lane's ileal kink and, (11) 2022
treatment of, (44) 1451
HYSTERECTOMY, (56) 468
access to bladder with, for prolapse of uterus, safe method, (59) 475
ovaries left in situ after, fate of, 2014—ab
supravaginal, for myofibromata, temperature range after, (110) 858
supravaginal, iodin as sterilizing agent in, (8) 466
vaginal, in pelvic disorders, present status of, (125) 276
vaginal, simplified technic for, *1060
vaginal, under spinal anesthesia, (72) 1108
HYSTERIA among soldiers, at front, (68) 1536
hysterotraumatism and simulation among soldiers, (54) 1688
in males, 2 cases, (3) 87
in marital conflicts, (66) 1942
pathogenesis of, (122) 378
present conception of, (113) 1460
symptoms of, in borderline cases of mental defect, (23) 1527
traumatic neurasthenia and, simulation and indemnities, (153) 552
HYSTEROCATALEPSY, case of, (25) 1880
HYSTEROTRAUMATISM, hysteria and simulation among soldiers, (54) 1688

I

ICHTHYOL in erysipelas, (51) 1456
ICONOGRAPHY, Jonathan Hutchinson, (33) 1191
ICTERUS: See Jaundice
IDAHO medical news, 350, 917, 1333, 1431, 2075
state board of April report, 2159
state board October report, 1267
IDIOCY: See also Degeneracy; Feeblemindedness
IDIOCY, amaurotic family, in one of twins, 2166—ab
in late infancy with transient apraxia of one hand, two cases, (86) 703
Mongolian, (131)1033
Mongolian, and syphilis, *1636
Mongolian, in Sweden, (86) 784
with deformity of hands and feet, (85) 784
IDIOGLOSSIA, (12) 1686
ILEOCECAL VALVE, insufficiency of, Roentgen findings with, (70) 549
ILEOCOLITIS, acute bacillary, (111) 1453
ILEOCOLOSTOMY for arthritis, (10) 2100
operative technic of colectomy and, (5) 2100
ILEOSIGMOIDOSTOMY for constipation and intestine stasis, 4 cases, (8) 2100
ILEUM, organic obstruction of, as cause of gastric disturbance, 1787—ab
volvulus of, (130) 1944
ILEUS, enlargement of stomach early sign of, (112) 378
from tumor and internal incarceration, (45) 1800
inflammatory enterocolic, (19) 1945
mechanism of production of hemorrhagic erosions of esophagus and lesions of, (19) 1106
postoperative, (63) 695
postoperative, and accompanying peritonitis, (38) 857
ILIAC colostomy, left, as operation in inoperable rectovaginal fistula with stricture of rectum, (119) 1616

ILIOHYPOGASTRIC nerve, preservation of, in operation for inguinal hernia (36) 1030
ILLINOIS medical news, 63, 158, 254, 350, 445, 519, 598, 671, 750, 838, 917, 1004, 1082, 1167, 1252, 1333, 1431, 1507, 1590, 1665, 1771, 1855, 1921, 1996, 2075
state board October report, 687
ILLUMINATION, modern, and ocular comfort, (149) 620
ILLUSTRATION, medical, origin, growth and future of, at Johns Hopkins Hospital and Medical School, (61) 1876
IMBECILITY: See Idiocy
IMMERSION fluid, superior, (111) 1538
IMMIGRANTS, examinations of, desirability of continuing, when war ends, 443—E
health conditions in Europe and relation to this country in, 1607—ab
influence of, on dissemination of tuberculosis, (95) 1032
ships, infections on, 253—E
IMMIGRATION, German, and Anglo-Saxon, (158) 1944
IMMUNITY and anaphylaxis, (82) 84
and tuberculosis, (108) 696, (37) 774
hypersensitiveness to pneumococcus protein and, (54) 940
infectious disease and typhoid vaccination, (22) 861
lipoids in, (35) 1034
of mice to implanted tumor, (48) 2097
pneumococcus infection and, (89) 275, (93) 371, (4) 1195
production of, by tonsils and adenoids in children, (107) 179
reaction, biochemistry of, (10) 860
reaction in pneumonia, leukocyte in, (45) 1428
reactions, influence of sodium iodoxybenzoate on, (32) 2096
IMMUNIZATION by inunction, 1603
IMPETIGO, Bockhart's (59) 2024
IMPLANTATION: See Grafting; Transplantation
IMPOTENCY cause of annulling marriage, (144) 1694
extracts of ovary and testicle in, (75) 1279
INANITION in habitual luxation of lower jaw in infant, (76) 284
INCISION, abdomen, technic of closure of, (4) 1875, (120) 1879
INCLUSION cell bodies of Döhle, (68) 702
INCUBATOR, infant, electric-heated and water-jacketed, *1068
respiration, for energy metabolism of infants, (4) 367
INDEX to The Journal, 2138—E
INDIA, women's medical education in, (51) 1685
INDIAN medical service officers, training of senior, in home commands, (30) 621
St. John ambulance and European war, (89) 469
service, examinations for physicians for, 161
INDIANA, health instruction in county of, 596—E
medical news, 63, 158, 254, 445, 519, 598, 671, 750, 838, 1005, 1167, 1333, 1507, 1665, 1921, 1997, 2075
state board January report, 1183
state board of health, (60) 695
University School of Medicine, (61) 695
INDIANS in Alaska, surgery among, *1748
INDICTMENT erroneously changed, prosecution under wrong provision and, 76—M1
INDIGESTION: See also Dyspepsia
INDIGESTION, (54) 774
causes of, 1,000 cases, (47) 1876
chemical analysis of stomach contents in 100 cases, (129) 2021
chronic, and chronic appendicitis, (120) 697
fat, in infants, studies in, (4) 1105
fat, studies in, (49) 695
INDOL, bacterial, detection and estimation of, (39) 1034
INDUCTORIUM calibrations, validity of, (26) 695
INDUSTRIAL accidents, 1752—ab
accidents and sickness, prevention of, by systematic inspection of plant and employees, (57) 1685
INDUSTRIAL accidents from medical standpoint, (34) 2102
accidents in clinic and hospital, care of, (115) 1796
accidents, medicolegal aspects of, lectures on, 2080
accidents, physical and psychic conditions of, 515—E
diseases and public health, (25) 467
hospital for, in Italy, 2174—ab
diseases of ear and respiratory tract among American factory workers, (100) 1274
factor in diseases of women, (61) 468
hygiene, (20, 24-26) 177
insurance, state, in Washington, (109) 543
parturient woman, causes of morbidity and mortality in, and measures for improvement, (22) 177
plants, trachoma outbreak in, effective control of, (125) 619
sanitary standards, (87) 275
INDUSTRIES, medical inspection of, (55) 1685
medical supervision in dangerous, (56) 1685
INEBRIETY: See Alcoholism
INFANT, abdomen in children and, care of, (101) 275
acidosis with autointoxication in children and, (3) 367
anemia, pernicious, in three, (140) 952
anemia, pseudoleukemic, in twins, (130) 1536
angioma of liver, cavernous, in 6 weeks old, (41) 1107
antibodies to cow's milk in blood of, (105) 1460
antitoxin in, enormous doses of, (150) 1616
appendicitic abscess in 13 months old, (26) 1617
atrophic, transformation of energy and metabolism in, (76) 187
atrophy in hospitals, prevention of, (12) 1874
atrophy of, urea content of cerebrospinal fluid and ash in feces with, (26) 781
bacillus mucosus capsulatus septicemia in, (59) 1273
beriberi in, (70) 91
blood transfusion in children and, (50) 1615
bottle-fed, institutional, cubic air space for, 2093—ab
bottle, new, (98) 1109
breast feeding, management of, (10) 713
breast feeding, technic of, 1636—ab
bromoderma tuberosum in 9 months old, following administration of calcium bromid, (113) 93
bronchoscopy for foreign body in, aged 3 months, *1654
caloric feeding of, (144) 276
colostrum in, nutrition of newborn, importance of, (38) 474
convulsions in new-born, (45) 857
defective development of, due to pathologic metabolism in parental organism, (9) 2168
diarrhea of children and, Stoeltzner's casein calcium milk in, (32) 82
diarrhea, severe, indications for treatment, 2166—ab
diarrhea, study of, during summer of 1914, (5) 1105
digestion disturbances of bacterial origin in, (49) 1795
digestion disturbances of proteid origin of, (48) 1795
digestion in, influence of posture on, (4) 1272
digestion of casein in stomach, (139) 952
digestive disturbances in, pathogenesis of, (111) 93
disorders of young, (116) 1797
diverticulum of urinary bladder, congenital, in children and, (126) 1943
eczema, facial, reduction of carbohydrates in, (125) 1943
energy metabolism of 2 months', fed on protein-rich diet, 2094—ab
energy requirement of new-born, (23) 1272
epinephrin in blood of, at birth, (65) 1883
exfoliative dermatitis in newborn, three cases in one family, (79) 1037
eyes, care of, (74) 618
INFANT, fat indigestion in, studies in, (4) 1105
feces, character of, (59) 618
feces, chemical composition of diarrheal and normal, (3) 1105
feces, fermentation test of, (106) 286
feeding, (86) 2020
feeding, albumin milk in, advantages and results of, (55) 1535
feeding and care of, surgical principles in, (69) 1615
feeding, artificial food mixtures for hospital, (11) 1874
feeding, buttermilk for, preparation of, (134) 1040
feeding clinic, Associated Charities, morbidity and mortality of, (33) 1613
feeding, cow's milk modified for, reaction of, (84) 696
feeding, fundamentals in, (58) 83
feeding, homogenized olive oil-fat-free milk mixtures in difficult, 2165—ab
feeding, humanized milk in, (75) 2019
feeding, management of, (37) 1684
feeding, method of, with precision, (29) 857
feeding of healthy, (68) 1108
feeding, personal factor in, (60) 857
feeding, sugar in, 2165—ab
feeding, top-milk in, (87) 179
feeding, whey in, (4) 773
fever in newborn, transitory pathology and treatment, (28) 473
food intoxication in, metabolic disturbances of intestinal tract with reference to, (81) 1796
foods, proprietary, nutritive value of, (6) 1272
foundling home for, problems of, (10) 1874
fractured bones in children and, fixation of, (22) 1527
gastro-intestinal diseases in, disturbance of circulation in acute, (26) 473
gastro-intestinal glands in, functional insufficiency of, severe, (133) 1040
gastro-intestinal hemorrhage fatal in newborn, (42) 1946
growth in, prenatal and postnatal, (13) 1526
health contest educational factor in preventive medicine, (153) 698
heart disease in, congenital, 2167—ab
hematoma of lower eyelid in, symptom of infantile scurvy, (3) 1195
hemiplegia, *1577
hemiplegia affecting left half of body, (2) 1944
hemorrhagic disease in new-born, (103) 619
hemorrhoidal nodules in newly born, (56) 281
hospitals and hospitalism, 265—C
hospitals for, are they necessary, *1
hunger in, after feeding, onset of, *1822
hydrochloric acid in stomach contents of, (97) 1367
hygiene and medical care, (53) 622
imbecility in, with transient apraxia of one hand, two cases, (86) 703
in Chicago Municipal Tuberculosis Sanitarium, provision for, 72—C
inanition in habitual luxation of lower jaw in, (76) 284
incubator, care and feeding of, (126) 858
institutional care of, outside of institutions, 79—ab
intestines of, flora in, (105) 1691
intestines, permeability of, for casein of cow's milk, (67) 476
intussusception in, danger of delay in diagnosis and treatment of, (99) 696
jaundice in newborn, (109) 1194
jaundice in newborn, an infectious disease, (99) 1201
jaundice in newborn, cause of spastic cerebral diplegia, (9) 1105
jaundice in newborn, etiology of, (105) 1201
keratomalacia in, fed on buttermilk, (105) 1804
kidney function test in older children and, (108) 93
INFANT, Lange colloidal gold reaction in cerebrospinal fluid of children and, (2) 367
leukemia, myelogenous, in 9 months old, 2167—ab
leukocyte counts during digestion of bottle fed (2) 1682
liquid paraffin in, (24) 1191
liver abscess in 5 weeks old, (3) 1685
malnutrition in, dietetic treatment of, (107) 1274
measles and immunity, (103) 1623
measuring board for, (106) 1878
meningitis, epidemic cerebrospinal, eight cases, (6) 2022
meningitis in newborn, 2166—ab
metabolism and nutrition, studies on (7) 1272
milk, pure, importance of, (2) 81
mineral metabolism in, on breast milk and albumin milk, (88) 2026
mortality, density of population and, 1753—ab
mortality due to labor, *2048
mortality in New York State, 1574—ab
mortality in so-called foundling institutions, 79—ab
mortality index of social welfare, 410—ab
mortality, means to reduce, (85) 2025
mortality of newborn, institutional, *287
mortality, reduction of, (114) 180, (118) 1797
mortality, university extension work for prevention of, 79—ab
nasopharyngitis cause of protracted fever in, (102) 1538
new-born, should it receive anything during first two or three days, (95) 371
nonprotein nitrogen and urea of blood and phenolsulphonephthalein excretion of children and, 2094—ab
nose sinuses in, disease of, (51) 1143
nursing, *502
nutrition disturbances of, (23) 368
nutritive diseases of, (6) 277
otitis, acute, (51) 74
otitis media, suppurative acute, treatment of, (117) 1797
parotitis in, primary suppurative, unilateral, three cases, (135) 861
pemphigus foliaceus of new-born, 81, 542
premature, (139) 1194
pyelitis cause of obscure fever in, (35) 1143
pylorus stenosis in, (29) 82, (98) 1616, (60) 1948
pylorus stenosis in, operated on by Keefe method, (7) 176
record charts for newborn, (16) 540
respiration incubator for energy metabolism of, (4) 367
salt fever and sugar fever in, from contamination of water, (25) 1617
scleroderma in new-born, (92) 1690
scorbutus in, (50) 1947
spasmophilic dyspepsia in, (70) 91
stomach content of, acidity in, (85) 92
strabismus in, importance of early treatment of, (75) 84
syphilis, congenital, without Wassermann reaction, (83) 1690
taenia saginata with structural abnormalities and spurious parasitism in, *1972
tubercle bacilli in blood of, (29) 1112
tuberculin reaction in breast-fed, after diagnostic dose to mother, *1312
tuberculosis bacillemia in, primary, (16) 2170
tuberculosis in new-born, (8) 1272
tuberculosis in, provision for, 360—C
tuberculosis, lung, with cavities, (57) 862
typhoid in children and, high caloric diet in, (5) 1682
underfed, (55) 1456
ureter in new-born, (71) 946
urine excreted by, measurement of, (59) 91
venesection and intravenous injections in, technic for, (108) 286

INFANT, vomiting of, uncontrollable, sweetened condensed milk for, (101) 285
weight, drop in, with rise in temperature in new-born, (26) 1532
weight, postnasal loss of, and compensatory overgrowth following, (16) 1526
welfare campaign, results of, 25—ab
welfare, German association for, meeting of, 1438
welfare, provisions for, during war, (46) 1197
INFANTILISM, anemia and associated splenomegaly, case of, (155) 627
kidney, (22) 1191
pancreatic, (17) 2022
INFECTION, acute, heart in, (129) 276
acute, in animals, protective value of aqueous extract, Hiss, of leukocytes, (81) 696
acute, lymphatic leukemia in, after removal of spleen, (43) 616
acute, suppurative, vaccine therapy in, present status of, (98) 275
acute surgical, treatment of, (83) 1615
acute, treatment of, (115) 858
ants, bees and cockroaches as possible distributors of, 1662—E
bacterial, *1814
camphor and phenol in, (126) 93
chronic, and neuroses, (73) 2099
chronic, and recovery without immunity, physical basis of, (15) 1105
dahlia in, (3) 1793
focal, and bacteriology of arthritis, (54) 468
focal, and systemic diseases, (168) 182
focal chronic, of nose, throat and ear, cause of general infection, (109) 1943
focal experimental, and clinical medicine, (69) 1274
focal, functional liver failure from, persistent glycosuria symptom of, (152) 544
focal, of teeth cause of eye involvement, two cases, (74) 1685
in operations, aseptic technic, *1369
in surgery due to lack of boiling of instruments, *1313
influence of, on blood picture in anemia, (56) 375
joints, phenol injection in, (12) 693
latent, affecting surgical measures, (71) 1037
local, due to intravascular dissemination of bacteria, (119) 1361
mouth, responsibility of physicians in, (66) 2019
oil from birch tar as substitute for Peruvian balsam in, (102) 625
Puerperal: See Puerperal Infection
rheumatism, endocarditis, arthritis deformans, ulcer of stomach and cholecystitis due to, (50) 774
septic, perforation of esophagus followed by, (71) 2099
septic, resistance of thorax to, (87) 864
stasis and edema, (39) 1534
systemic, mouth as source of, (70) 1274
systemic, tonsils and, (39) 1192
systemic, tonsils and adenoids and, (55) 178
teeth as foci of, (82) 1193
tonsils, (3, 7) 2169
tubercle bacilli, human and bovine type, simultaneous in, in child, (33) 2097
urinary tract, chronic, in women, laboratory diagnosis of, 2092—ab
vaccine therapy of, (58) 1192
wound, and trauma, (51) 1882
INFECTIOUS DISEASES, acute, Ehrlich's differential reaction in urine in, (53) 1113
acute, myocardial changes following, (86) 618
acute, strychnin and caffein as cardiovascular stimulants in, (19) 1191
air-borne, and weather, (24) 88
an unnecessary scare, 890—ab
autogenous serotherapy in, (93) 1280
cellular factor in, *649
colon bacillus vaccine in, (50) 782
INFECTIOUS DISEASES, common, 54—T
ferment activity of blood serum in, (44) 2097
in army, prophylaxis of, 355
in South America, recent investigations, (44) 695
Japanese Institute for, 353
malignant syndrome in, (36) 1364, (21) 1617
notifiable, at Vienna, 1901-1910, (106) 93
specific serum of convalescents in, 1915—E
specific skin tests in, new uses of, (11) 938
superposed, (88) 1367
transmission of, and germs in breath, (48) 1197
trauma and chronic, (93) 2026
INFLAMMATION and immunity of mice to implanted tumors, 1610—ab, (48) 2097
pathogenesis of neuralgia in relation to toxicosis, neurosis and, (81) 179
pelvic organs, acute, (44) 274
sensory nerves and, (48) 617
INFLUENZA, 341—T, (79) 1796
bacilli in genitalia at term cause of puerperal infection, (95) 2027
epidemic in London, 756
in a battalion, (61) 1619
lung affections in, (22) 88
necropsy findings with typhus and, (77) 1537
INHERITANCE of acquired properties, (80) 1366
INJECTION, boiling water, into thyroid, for hyperthyroidism, (117) 469, (117) 1361
contratoxin No. 4, Mehnarto, and opsonins in blood serum of tuberculous patients, (10) 2169
epidural, in enuresis, (124) 866
intracranial, of autoserum salvarsan, five cases, (2) 937
intracutaneous, and anaphylaxis, (36) 1112
intramuscular, of ether, general anesthesia from, (104) 1623
intramuscular, of insoluble calcium salts, (101) 1367
intramuscular, of mercury salicylate, painless method, (98) 1360
intraspinal, of antitoxin in tetanus, *1982
intraspinal, of morphin, *1494
intraspinal, of neosalvarsan, arrest of respiration after, (61) 1278
intraspinal, of neosalvarsan, patient's spinal fluid as vehicle, technic and demonstration, (39) 1451
intraspinal, of novocain, death after, (102) 866
intraspinal, of salvarsan, dangers and fallacies of, (89, 93) 941
intraspinal, of salvarsanized serum, (117) 180, (149) 276, (21) 938
intraspinal, of serum with and without preservatives, functional effect of, (34) 369
intraspinal, Swift-Ellis and modified Ravaut, for syphilis of nervous system, *1563
intratracheal, of medicated oil in gangrene in lung, (96) 188
intravenous and intraspinal, in cerebrospinal syphilis, (4) 538
intravenous, and venesection in infants, technic for, (108) 286
intravenous, cannula and needle for blood transfusion and, (95) 1193
intravenous, dangers of, in high blood pressures, (73) 371
intravenous, distribution of colloidal metals in tissues after, as revealed by ultramicroscope, (80) 1280
intravenous, history of, (120) 1692
intravenous, method of distending veins of forearm preparatory to administration of, (166) 182, 2007—C
intravenous, of colloidal solutions in shock, *721
intravenous, of concentrated solutions of neosalvarsan, (133) 379, (117) 705
intravenous, of diphtheria antitoxin in children, (5) 367
intravenous, of iodoform in pneumonia, (94) 1117
intravenous, of mercurialized serum in syphilis, *1471
intravenous, of mercuric chlorid in acute articular rheumatism, (135) 952
INJECTION, intravenous, of salvarsan and neosalvarsan, prevention of inflammation from leakage during, *1316
intravenous, sphygmomanometer cuff in, (166) 182, 2007—C
intravenous, technic for, simplified, (55) 1365
iodin, local, for goiter, (167) 868
liquid petrolatum, into abdomen to prevent adhesions, (119) 705
mercury, insoluble preparations of, danger from, (108) 866
of aged cultures, (37) 374
salt solution, epidural, in sciatica, (97) 696
salvarsanized serum, apparatus for, *1317
subconjunctival, of salvarsanized serum in ocular syphilis, (118) 1453, *1649
subcutaneous, of oxygen as therapeutic measure, (5) 271
subcutaneous, of oxygen, in wounds and gas gangrene, dosage and technic, (54) 2024
subdural, of neosalvarsan, in syphilis, *199
vagina and rectum, boric acid, toxic action from, (102) 1367
INJURY, crushing, (128) 1194
to previously injured person, 1870—MI
INK for writing on glass, 764
INSANE among crews of interned vessels, 2080
asylum in India, construction and administration of, (2) 87
asylum, law governing conspiring of inmate of, to escape, 690—MI
care of, true and false economy in, (1) 1611
delusions, and testamentary capacity, 1355—MI, 1606—MI
gynecologic operations on, (58) 857
in Switzerland and Spain, 649—ab
Massachusetts hospitals for, extension of outpatient work in, (27) 1527
negroes, syphilis among, (16) 1450
paralysis of, in married men, their wives and children, 100 cases, (56) 83
sex of, 444—E
state care of, perils of, (11) 856
state hospitals for, medical organization of, (109) 1796
syphilis among, in government hospital, prevalence of, *972
INSANITY: See also Mind, Diseases of; Psychiatry
INSANITY and Mott's law of anticipation, 1767—E
epileptic, conviction of murder affirmed where defense was, 1187—MI
extent of feeblemindedness and, and causes in Michigan, (113) 1878
from standpoint of general practitioner, (107) 1685
in children, (3) 937
increase of, (111) 1943
infirmities of old age, insane delusions, and testamentary capacity, 1355—MI, 1606—MI
maniac depressive, catatonic states in, (34) 857
maniac depressive, mixed states and atypical forms of, (7) 1940
physiologic characteristics in, 937—ab
postoperative, with reference to ophthalmic cases, (88) 1943
prevalence and prevention of, *1211
preventable, (147) 1879
puerperal, (74) 1360
treatment, (119) 1275
war and, 67
INSECTS and war, (10) 620, (10) 943, (6) 1033, (4) 1530, (13) 1945
blood sucking, and ticks, salivary secretion of, (24) 621
blood sucking, in Central America, (130) 867
new charges against, 1662—E
powder, tests of, (77) 1457
transmission of disease by, (108) 705
INSOMNIA and suicide, (21) 183
INSPECTION, Medical, of Schools: See Schools, Medical Inspection of
INSTRUMENT: See also Apparatus
INSTRUMENT, atomizer for applying tincture of iodin, (66) 863
INSTRUMENT, auscultoplectrum, combined stethoscope and percussion hammer, (197) 619
bladder calculus evacuator, (97) 179
blood vessel clamps of practical utility, (25) 615
brain explorer, improved form of, *2130
cannula and needle for blood transfusion and intravenous injections, (95) 1193
electric mouth light, (65) 1528
electrode for fulgurating larynx, (64) 541
electromagnet, iron-clad, for surgical purposes, value of U-shaped combination, (85) 179
eye speculum, new, (97) 858
eyelid everter, new, *2130
for removal of adenoids, new, *1067
for scarifying in von Pirquet cutaneous tuberculin test, (72) 1528
forceps, time-saving, *1318
infection from, lack of boiling source of, *1313
laryngoscope, new direct-view, self-retaining, (65) 541
lid retractors for cataract operation, (145) 1797
Lumbard's controller of tongue and palate for general anesthesia, *1757
mouth gag with lip retractor, *1909
mouth speculum, *1580
nasal dressing forceps, *1316
pincers to turn appendix stump inside, (118) 93
pocket flashlight for ear and eye examinations, *240
removal of rust from, 72, 169, 265
retractor, butterfly, in operations on gall-ducts, (121) 858
signal-magnet controller, (72) 1942
sphygmomanometer, pocket, mercurial, *1755
splint, extension transportable, (72) 1199
spring spreaders in treatment of abscesses, (65) 946
stem pessary, (104) 1691
surgical, care of, in field, (74) 1279
surgical saw, history of, (66) 946
syringe for transfusion of blood, *582
tongue depressor gastro-enterostomy clamp, (25) 1941
tonsillectomy, *1909
tourniquet, metal spring, (39) 1277
unsterilized, negligence and use of, 812—MI
uterine curette, 3 bladed, (64) 468
vacuum electrode, intra-urethral breakage of, *334
visual lithotrite, (96) 618
INSUFFLATION, ether anesthesia, (110) 619
Intratracheal: See also Anesthesia, Intratracheal Insufflation
Intratracheal, for artificial respiration, (55) 2024
Intratracheal, life prolonged by, in case of cerebellar tumor, (132) 379
Intratracheal, of ether, apparatus for, portable positive-pressure, *138
INSURANCE act, defects of, owing to overprescribing by panel physicians, 1088
act, national, excessive sickness claims under, 450
act, sickness benefit claims under, 1863
casualty, malpractice not covered by, 462—MI
company, examining physician's relation to agent, applicant and, (31) 1358
experience applied to lengthen life, (159) 1944
for hospital, (82) 1453
imperial, war operations of, 525
industrial, isolated disease of lunar bone from standpoint of, (46) 709
industrial medical, and physician, (97) 943
industrial, state, in Washington, (109) 543
life and accident, and war, (122) 551
life, and arteriosclerosis, (132) 1879
life, and laboratory examination, (135) 1879
life, and surgery, (90) 1796
life, blood pressure and, (87) 941, (132) 1275, (57) 1795
life, court decisions affecting, (100) 85

INSURANCE, life, differential diagnosis between functional and organic heart murmurs with reference to, (112) 1878
life, family history and, (123) 372
life, heart in, (70) 1615
life, heredity and predisposition in, (115) 85
life, influence of heredity on risks in, (61) 1685
life, instructions to local examiners, (140) 2021
life, medical examination for, (124) 372, (37) 616
life, underwriting, aspects of, (65) 1452
social, and medical profession, *381, (146) 620
societies, philanthropic care of soldiers by, of nation and Berlin, 1438
wage earners', and physicians, 1598
INSURED failing to give notice because of information withheld by physician, 1785—MI
having tumor in hypophysis cerebri, 2089—MI
INTELLIGENCE tests, symposium on, (118) 1530
INTERN, dental service in hospitals by appointment of, *387
hospital, and war, 603
hospital, promotion of, to grade of assistant surgeon, 355
year, hospital, required at Northwestern University Medical School, 169
INTERNATIONAL Health Commission, organization and activities of, *1889
Health Commission to move, 522
INTERSTATE Association of Anesthetists, meeting of, 1008
INTESTINE, ameba cultivated from normal human, (43) 695
amebiasis, atypical forms of, (55) 940
amebiasis, emetin and ipecac in, *982
anastomosis, (82) 179
anastomosis, lateral, new method, (122) 859
and liver toxemia, (31) 1684
angioneurotic edema, surgical significance of, (28) 1106
arrested development of small, in man of twenty-eight, (19) 2100
bacteria and diet, 1500—E
cancer, (139) 942
cancer, diagnosis of, (62) 695
catarrh, (69) 374
content, antagonistic action of, on peristalsis, (85) 2106
disinfection of, continuous, for goiter, 9 cases, (43) 1618
diverticulitis of large, roentgenology of, 3 cases, (43) 1106
diverticulum of small, (80) 784
dysenteriform, disease, (61) 375, (75) 863
effusion into wall simulating appendicitis, (131) 1944
embryonal type of large, persistent, (19) 615
examination of lower, in diagnosis of disease, (36) 1107
fat absorption from lower, 153—E
fermentative conditions of, and monilia, *1893
flora, influence of milk feeding on mortality and growth of, (49) 1528
graft to repair ureter defect, (28) 774
gunshot wounds of stomach and, operative treatment, (150) 697
infant's, flora in, (105) 1691
infection of, subacute and chronic, (103) 275
intoxication, headaches and epilepsy, (62) 1685
lesions in 1,000 autopsies in Manila, (124) 1275
mucosa in human, (27) 2022
metabolic disturbances of, with reference to food intoxication in infants, (81) 1796
motility, effect of morphin on, (24) 1939
mucosa, formation of calculi around unabsorbable material used in suturing, (29) 1106
mucosa, reflexes from, to stomach, (21) 694
obstruction, (59) 371, (33) 373, (99) 1032, (14) 1191, 1914—E
obstruction, acute, following septic miscarriage, (21) 1798
INTESTINE obstruction, acute, mortality statistics of 276 cases, (35) 1030
obstruction, acute, surgical treatment of, (126) 1110
obstruction, choice of operation in, (104) 1685
obstruction, congenital, (10) 1683
obstruction due to gallbladder calculus, (40) 2022
obstruction due to sigmoid volvulus in a child, *1744
obstruction, high, excessive mortality of, (125) 1361
obstruction, late operation for, suggestions in, (71) 541
obstruction, management of, in delayed treatment, (118) 1616
pain in peritoneum and, (71) 476
paralysis of stomach and, postoperative, (71) 623
paralysis, pituitary extract in, (94) 618
parasites, incidence of, 1249—E
perforation of, in typhoid, early diagnosis and treatment, (126) 1033
perforation of stomach and, by foreign bodies swallowed, (15) 1683
perforation, typhoid, operative treatment, (11) 1683
phlegmonous, processes, (37) 279
polyposis, (122) 1361
prolapse and adhesions, 1787—ab
putrefaction processes in, harmless, (51) 547
recuperation of, in strangulated hernia, (136) 2029
removal of, 1603
resection of one half of small absorption of fats and protein after, (7) 271
resection without anesthesia, (69) 941
rhythm, studies on, (20) 1794
roentgenoscopy of, (15) 82, (7) 2100
roentgenoscopy of pathologic conditions of large, (111) 1032
rupture, (46) 695
rupture from contusion during pregnancy, (35) 474
rupture of kidney or, traumatic, without trace of injury on skin, (90) 2106
rupture of, traumatic, 2 cases, (140) 1879
specimens of large, removed by operation, (4) 2100
stasis, (117), 85, (75) 542, (103) 858, 1400—E, 1787—ab, (1) 1879, (139) 1944
stasis, bands, kinks and membranes, (111) 1194
stasis, chronic, (69) 274, (169) 628
stasis, chronic, associated with Lane's ileal kink and hypothyroidism, (11) 2022
stasis, chronic, fluoroscopic and Roentgen ray diagnosis, (16) 82, (80) 1032
stasis, chronic, operative findings, (11) 466
stasis, chronic, operative treatment of, (17) 1530
stasis, colectomy for, (26) 372
stasis due to cecum mobile and coloptosis, surgical treatment, (84) 1109
stasis, functional, cause and effect, (116) 1360
stasis, ileosigmoidostomy for constipation and, 4 cases, (8) 2100
stasis, medical viewpoint, (128) 180
stasis, operations for, (11) 2100
stasis, postoperative, pituitary extract in, (98) 371
suturing, technic of, (102) 1685
tonicity of, direct action of nicotine and tobacco on motor functioning and, (120) 278
toxemia, (111) 1878
toxemia and colitis in chronic diseases, (40) 857
toxemia and diabetes, (95) 179
toxemia, medical aspect of, (127) 2021
toxemia, roentgenoscopy of, (128) 2021
trichomoniasis of, clinical and experimental, (125) 1797
tuberculosis involving hip joint, bronchial glands, lungs and, (20) 1276
tuberculosis of lung and, with tuberculous empyema, tuberculous septicemia and terminal intestinal hemorrhage, (20) 2022
INTESTINE, tumors, chronic enteric intussusception due to, *1303
wounds of, (72) 1115
wounds of, treatment of, in war, (48) 1800
INTUBATION and tracheotomy, occlusion of trachea due to injury of cricoid cartilage after, (6) 1111
apparatus and tubes for treatment of chronic stenosis of larynx, *1066
INTUSSUSCEPTION, (108) 859
chronic, enteric, due to intestinal tumors, *1303
in children, (135) 86
in infants, diagnosis and treatment, danger of delay in, (99) 696
inverted Meckel's diverticulum, cause of, *1065
INUNCTION, immunization by, 1603
IODEX, 2085—P
IODIN and vaccination, (11) 1797
as germicide, (65) 857
atomizer for applying, (66) 863
benzin substitute for alcohol in, (106) 866
bromin chloroform as substitute for, (113) 949
content of thyroid and diet, 1080—E
content of thyroid and other tissues, 515—E
distribution of, in cell following administration of organic iodin preparations, (8) 539
dressing, individual, 1258
elimination of, in children's urine, (53) 1535
excessive reaction following use of, (13) 2022
for goiter, local injections of, (107) 866
fumigator, (117) 1194
in diseases of cornea, (111) 371
in erysipelas, (102) 1951
in first aid packet for soldiers, 1749—ab
in human fetal thyroid, (89) 1878
in iodotone, correction to quantity of, 167
in joint injuries, (21) 373
in operative wounds, (107) 1460
influence of, on myxedema, (69) 283
intravenous treatment, (97) 1459
of thyroid, active constituent of, 2073—E
of thyroid, chemical nature and physiological activity, *2042
sterilization in supravaginal hysterectomy, (8) 466
sterilization of skin with tincture of (4) 2169
sterilization of wounds with gasoline and, (41) 1618
substitutes for, in sterilizing skin, (73) 1199
test for, in body fluids, (47) 1113
test for, simple, (84) 2026
therapeutic action of, (46) 940
warning against indiscriminate use of, (86) 284
IODOFORM filling for cavity in thyroid, (115) 378
intravenous injection of, in pneumonia, (94) 1127
IONIC medication and heliotherapy as used at Las Animas, (140) 620
medication in onychia, (3) 2022
IONIZED air and local application of electricity in tuberculosis, (37) 90
IOWA medical news, 350, 672, 838, 917, 1334, 1507, 1590, 1997
state board January report, 1783
state board May report, 2088
IPECAC, *2065
and emetin in intestinal amebiasis, *982
IRIDECTOMY, technic of, preliminary to cataract extraction, (191) 1455
IRIDIREMIA, bilateral complete, in child whose father has bilateral coloboma of iris, (107) 1453
IRIDOCYCLITIS, idiopathic, and sympathetic ophthalmia, (34) 616
IRIS, coloboma of, complete bilateral iridiremia in child whose father has, (107) 1453
IRISH medical journals, account of, (21) 1687, (15) 2022
IRITIS, action of atophan and novatophan on gout and, (39) 939
chronic prostatitis factor in, (155) 1944
IRITIS, gonorrheal, manifestation of old latent gonococcemia, serodiagnosis of, treatment with bacterins, (109) 469
IRON and iron metabolism in anemia, experimental work on, (126) 276
arsenic and mercury compounds for syphilis, (81) 1115
content of viscera, (21) 780
Cross for German physicians, 258, 604, 678, 1669
retention in organs in hemolytic anemia, (38) 1035
ISCHEMIA, action of, on surgical tuberculosis, (118) 705
passive, in frozen limbs, (32) 861
ISCHIORECTAL abscess and fistula in ano, treatment of, (92) 2029
ITALIAN Red Cross hospital at Paris, 258
society for experimental phonetics, 2080
ITALY, hospital for industrial diseases in, 2174—ab
places more restrictions on liquor trade, 755
IVORY for repair of bone, (69) 1036

J

JACKSON'S MEMBRANE, (36) 273
roentgenologic interpretation of, (22) 466
theories as to origin of, (130) 620
JACOBI, Abraham, testimonial banquet to, 1256
JACQUET, Lucien, death of, 356
JAPANESE Institute for Infectious Diseases, 353
Red Cross, mission of, to Paris, 844
river fever, mite causing, (120) 1039
JAUNDICE, acholuric, case of, (18) 1617
chemical examination of duodenal contents in diagnosis of, *565
hemolytic, (123) 866
hemolytic, congenital, metabolism studies before and after splenectomy in, 2163—ab
hemolytic, congenital, with splenomegaly (42) 939
in children, (52) 1947
in new-born infant, (101) 1194
in new-born infant an infectious disease (99) 1201
in new-born infant, etiology of, (105) 1201
in new-born infant, severe, cause of spastic cerebral diplegia, (9) 1105
paratyphoid bacillus with severe, in boy of 5, (98) 1367
pathologic physiology of, history of, (88) 1193
pneumonia with, following pleurisy, (26) 1558
splenic, (13) 2100
toxic, tetrachlorethane poisoning cause of, (32) 1276
JAW, fracture of lower, *132
luxation of lower, habitual, in infant, inanition in, (76) 284
perithelioma of superior, and ethmoid, (33) 2022
sarcoma, excision for, (29) 2022
tumors of, mesothelial, *40
wounds of, (48) 474, (54) 782, (91) 948
wounds of lower, received during war, (29) 474
wounds of, prothesis after, early and adequate, (79) 1457
JEJUNUM, tuberculous cyst of, removal of, with segment of bowel, death later due to tuberculous meningitis, (125) 1110
ulcers of stomach and, secondary, (29) 1106
JEQUIRITY, active principle of, in epitheliomas, (109) 866
JEWS, nervous diseases among, (68) 1615
tuberculosis work among, in Cincinnati, (48) 2019
JOINT, ankle, amputation at, leaving heel intact, (6) 779
bodies in articulations apparently normal, (27) 467, (148) 1195
bodies, study of, from within in articulations apparently normal, (88) 1685
diseases, classification of, (75) 179
diseases, diagnosis of, (182) 87
diseases, prophylaxis of, in children, (112) 1616
diseases, rarer forms of, (97) 1873
disturbance and gastro-intestinal tract, value of eliminative treatment, (57) 468

JOINT, dystrophy of, of lower extremities, due to syphilis, (11) 1611
effusion, bacilli in, in rheumatism, (90) 784
effusion in, new treatment for, 1010
fractures near, three cardinal signs of, (129) 180
hand, arthritis of, following Colles' fracture, ten cases, (130) 1361
hip, juvenile deforming osteochondritis of, (63) 91
hip, tuberculosis involving bronchial glands, lungs, intestines and, (20) 1276
infections of, phenol injection in, (12) 693
injuries, iodin as antiseptic in, (21) 373, (12) 693
injuries, roentgenograms in diagnosis and treatmeht of fractures and, medicolegal aspect of, (87) 1796
knee, internal derangements of, (164) 180
knee, loose bodies in, (132) 867
knee, loose body in, exostosis on tibia cause of symptoms simulating, (145) 868
knee, tuberculosis in adults, prognosis and treatment, (4) 1611
knee, tuberculosis in children, (5) 1611
knee, tuberculosis, resection for, *140
massage and mobilization in traumatic affections of (36) 1527
metastatic infections of bones and, acute, surgical, (113), 1032
mobilized, operative, (53) 1619
mobilized, operative, stand stress of active military service, (111) 950
mouse, (21) 615
resection of, implantation of soft parts in, (66) 1036
stiff, adjustable apparatus for mobilizing, (100) 1623
stiff, device for restoring function of, (100) 1280
stiff, directions for avoiding, (72) 864
stiff, treatment of, (38) 279, (119) 551
surgery of bone and, modern, (104) 619
syphilis, (99) 1194, (60) 1452
syphilis in children, (10) 1611
tuberculosis, (95) 1529
tuberculosis, inlay bone graft in, (60) 1615
tuberculosis of bone and, calcium in, (62) 475
tuberculosis of bone and, etiology and pathology of, *17
tuberculosis of bone and, heliotherapy of, at seashore, (103) 188
tuberculosis of bone and, treatment, (62) 701
tumors of tendons and, cholesterin in development of, (77) 947
wounded suppurating, arthrotomy for, (37) 1618
wounds of, after-treatment, especially of shoulder, (120) 551
wounds of bones and, in war, (54) 1113
xanthosarcomas of tendon sheaths and, (62) 623
JOURNALS, arrangement of, in current literature department, 2086
foreign, news from, 1087, 2000
French, reappearance of several, 1859
French, two suspend publication until after war, 161
Irish, medical, account of, (21) 1687, (15) 2023
medical, and scientific society, (77) 371
medical, necessity of accurately checking unussing reports before publishing in, 1589—E
new, Proceedings of National Academy of Sciences, 597—E
of Obstetrics and Gynecology short contributions, 1511
of Royal Naval Medical Service, new, 602
on social hygiene, new, 252—E
why it does not let up on the fraud in medicine, 836—E
JUGULAR vein, double internal and high bifurcation of common carotid artery, (39) 1030
vein, ligation of internal, in fulminating otitis media, mastoiditis, and sigmoid sinus thrombosis, (86) 1032

K

KAISER Wilhelm Institute for Physiology and for Study of the Brain, ground broken for, 923
KALA-AZAR: See also Leishmaniasis
KALA-AZAR, case of, (1) 1111
examination of peripheral blood in, (20) 621
feces in, bodies of unknown nature found in, (22) 621
in Chinese child, observations on, (29) 1799
or parasitic splenomegaly, (23) 372
progress of, in localized community, (21) 621
quinin and arsenic in, (8) 1797
tartar emetic in, (62) 1883
KALMUS Chemical Company, 1094—P
KANSAS appoints a commission to draft bill for single standard of medical licensure, 250—E
medical news, 350, 750, 838, 1083, 1168, 1432, 1771
state board October report, 1183
KAOLIN and charcoal in diarrhea, (99) 1459
bacteria in nose and throat removed by, *1985
clay eaters and clay-containing streams, 2157—C
for bacteria carriers, 1991—E
in paratyphoid, (51) 475
KARA, John M., death of, 841
KEEFE, pyloric stenosis in infant operated on by method of, (7) 176
KEIDEL, vacuum tube in blood-culture work, *822
KELLOGG-BERGONIE method, new application of ergotherapy by, in obesity and other chronic disorders, (96) 1796
KELOIDS, false, prevention of, in scars, (20) 1357
fascia lata strips in prevention of, in scars, (26) 1941
formation in negro, (22) 615
radium in, *1300
KENNEDY'S Pinus Canadensis, Light and Dark, 606—P
KENTUCKY medical news, 254, 750, 1005, 1083, 1168, 1590, 1957
state board December report, 765
KERATITIS parenchymatosa, (52) 274
parenchymatosa relative to old and new antisyphilitic therapy, (70) 1876
KERATOCONUS, high frequency spark in, (112) 469
KERATODERMA, congenital, generalized, case of, (39) 1684
KERATOMALACIA in infants fed on buttermilk, (105) 1804
KERATOSIS pilaris of scalp, (16) 1105
Roentgen-ray, on hand of roentgenologist cured by radium, *1394
seborrheic, symptomatology and treatment of, *403
KETOGENESIS and pancreatic organotherapy, (6) 539
KIDNEY and heart type of symptomatic psychoses, (49) 82
aplasia of left ureter and, (31) 2101
blood cyst, solitary, with hematuria, (144) 379
blood transfusion and, (4) 856
cancer associated with kidney stone, (18) 1684
chronic poisoning of heart, lungs and results of operations on nose and throat in, (85) 2099
collateral arterial circulation of, experimental research on, (45) 1619
colon bacillus, experimental effect of, on, *297
cyst, calcareous, (19) 1612
cyst in child of three, (39) 781
cyst, solitary, (81) 375
cystadenoma, malignant papillary, with metastases, (154) 180
cystadenoma mistaken for ovarian cyst, (116) 1878
cystic disease of, congenital, multiple, (51) 695
cystoid, perirenal, in man and animals, (51) 1365
decapsulation of, (97) 371
decapsulation of, for occupational acute hematuria, (71) 1536
deformity of, from surgical standpoint, (96) 1803
dermoids of, (118) 858
diagnostic and prognostic values in disease of, (150) 87
digitalis, effect of, on heart and, (117) 286
KIDNEY disease, chronic, complicated by pericarditis, (97) 188
disease, chronic, effect of, on excretion, (58) 375
disease, clinical data of, in elucidation of kidney function, results of investigation by Kinloch on, 346—E
disease of heart and, from therapeutic standpoint, (1) 1028
disease of heart, arteries and, chronic, (58) 2099
duplication of ureter and pelvis of, (24) 368
dyspnea in diseases of heart and, 250—E
efficiency, (101) 1032
ether, effect of, on lungs and, (50) 178
fibroma of, casting Roentgen shadow, two cases, (40) 700
finer structure of, (104) 551
function and ureteral catheterization, (127) 1033
function, effect of anesthesia and operation on, as shown by phenolsulphonephthalein test, (13) 1190
function in acute experimental unilateral nephritis, (47) 939
function in renal, cardiorenal and cardiac diseases, (24) 1612
function, mechanism of, (67) 282
function, phenolsulphonephthalein test of, (123) 180, (68) 475, (56) 940
function, phenolsulphonephthalein test of, and anatomical changes in kidneys at necropsy, (1) 271
function, phenolsulphonephthalein test of, simple colorimeter for use in, *1757
function, residual nitrogen in blood as index to, (66) 1536, (81) 1622
function, separate, as determined by ureter catheter and phenolsulphonephthalein, *223
function, study of, prior to operation, (81) 371
function tests, (105) 1538, (49) 1876
function tests, chemical, in surgical conditions of urinary tract, value of, *104
function tests, clinical importance of, (99) 1951
function tests, in infants and older children, (108) 93
function tests in surgery, (91) 686
function tests, limitations of, (90) 1529
hematomas, perirenal, (118) 626, (116) 1202
hematuria, symptomless, from tumors, aneurysms, calculus and early tuberculosis, (3) 2100
hematuria, unilateral, 2161—ab
hemorrhages, occult, (86) 1537
hypernephroma, (50) 371
in relapsing fever, (96) 1950
infantilism, (22) 1191
infections, (44) 178, (17) 774
infections and ureteric function, *205
infections from bacteriologic point of view, (15) 856
infections, hematogenous, *226, (112) 1194, (43) 1614
infections, hematogenous, acute, unilateral, *231
infections, postoperative, 2093—ab
infections, pyogenic, stagnation of urine and development of, (75) 623
inflammation of, pelvis, cause, diagnosis and treatment, (105) 179
klossiella in, of guinea-pig, (12) 372
movable, (55) 371
movable, and forking ureter, (71) 1883
movable, new method of examining for, (52) 541
movable, surgical treatment, (27) 373, (56) 548, (72) 1452
necrosis of cortex in eclampsia, (27) 80
necrosis of cortex in pregnancy, (31) 1034
polycystic, analytic study, (151) 180
porous plaster cause of toxic symptoms in bladder, urethra and, (58) 1278
pregnancy, and eclampsia, treatment of, (100) 865, (113) 1201, (133) 2028
pregnancy, diagnosis and prognosis of changes in, (36) 474
KIDNEY, psychopathic subjects and lesions in, nature and importance of, (90) 84
ptosis, urine in, bacteriologic findings in, (10) 176
pyelography in diagnosis of movable kidney and diseases of, (51) 945
rupture from contusion, (55) 548
rupture of intestine or, traumatic, without trace of injury on skin, (90) 2106
sarcoma, (119) 543, (104) 1360
secretion, action of sugar on circulation and, (82) 2106
secretion of urine in, mechanism of, (57) 782
secretory fibers in vagus nerve, (28) 368
single, frequent occurrence of, 77, 784
small, with reference to new formation of tubules, (91) 84
Surgery: See also Nephrectomy
surgery, (131) 276, (92) 1943
surgery, renal diagnosis and, (132) 1944
surgical, (107) 1367
transplantation of left, into inguinal region and right nephrectomy, dog healthy six years after, (52) 548
tuberculosis, (114) 378, (117) 859, (117) 1460, 2160—ab
tuberculosis, chronic blood-borne, primary localization and mode of spread of, (101) 1803
tuberculosis, diagnostic difficulties and surgical problems, (71) 179
tuberculosis of horseshoe, (50) 945
tuberculosis, spontaneous healing of, 1331—E
tumor, (76) 1796
tumors, perirenal and peri-ureteral, (49) 1107
typhoid with kidney complications, (137) 552
KILLIAN operation and frontal sinusitis, two cases, (120) 1453
suspension laryngoscope in diagnosis and surgery of larynx, (113) 1616
KIMPTON-BROWN tube, blood transfusion by, 365—ab
KINETIC system, (37) 857
system and treatment of peritonitis, (10) 1029
KINLOCH, results of investigations by, on clinical data of kidney disease in elucidation of kidney function, 346—E
KINNEAR, Hardman N., honors for, 1511
KISSING, ban on, in outbreak of cerebrospinal meningitis, 1011
KIUTSI'S method of urine diagnosis, *1651
KJEUDAHL-Folin-Karmer method of determination of nitrogen, (15) 2096
KLINE'S Nerve Remedy for epilepsy, 847—P
KLOSSIELLA in kidney of guinea-pig, (12) 372
KNEE, flexible metal splint adaptable to any angle of elbow or, (55) 83
gunshot wound of, (53) 541
jerk, improved technic for, (102) 1460
joint, extraction of shrapnel bullet from, through vertical incision, (14) 1195
joint, internal derangements of, (164) 180
joint, loose bodies in, (132) 867
joint, loose body in, exostosis on tibia cause of symptoms simulating, (145) 868
painful ganglion of tendons, tendon sheaths or, (77) 375
suppuration in, with or without fracture, treatment, (48) 1036
tuberculosis in adults, prognosis and treatment, (4) 1611
tuberculosis in children, *1387, (5) 1611
tuberculosis, resection for, *140
KOCH'S birthday celebrated in Japan, 920
KORSAKOFF'S psychosis in pregnancy, (101) 1691
syndrome or polyneuritic psychosis, (106) 85
KRISTELLER technic in labor, 2086
KROMAYER quartz lamp, Nagelschmidt modification of, in diseases of hair and scalp, (105) 1796

L

LABELS of tubes containing hypodermic tablets, uniformity in, 1519—C
LABII majoris, adenocystoma of, large papillary, of fetal origin, (92) 1200
LABOR: See also Obstetrics; Presentation
LABOR, anesthesia and analgesia in, (6) 614
bladder function after, 2092—ab
complicated, (83) 1195
date of, determining, (9) 1874
ductless glands and onset of, (28) 2022
dura mater ruptured during, (44) 2024
government help for German women during pregnancy and, 65, 261
hematoma following, unusual, (121) 1361
hospital facilities for surgical cases, need of free and low-priced beds, 79—ab
in elderly primipara, (16) 1029
infant mortality due to, *2048
inversion of uterus, acute, following, repeated, (17) 1686
Kristeller technic in, 2086
lacerations of perineum during, (9) 1617
mechanism of pathologic engaging of fetal head, (104) 1201
missed, with extra-uterine pregnancy, (44) 1197
morphin in, (25) 89, (39) 546
mortality and morbidity of women industrially employed, (22) 177
mortality in puerperium and, *122
nerve blocking for normal, (94) 1281
nitrous oxid gas analgesia in, (79) 179, *812, *813, 1187—ab, (63) 1273, (28) 1527, 2015—ab
normal, conduct of, (102) 371, (139) 1275
normal, how to obtain, (63) 1795
pituitary extract in, (76) 542, (64) 791, (30) 861, (103) 1201, *1222, (61) 1942, (81) 2099
pituitrin in, (178) 87, (3) 1874
placental extracts in production of abortion and, (131) 1110
placental stage of, management of, with reference to adherent placenta, 2015—ab
scopolamin-morphin anesthesia in, (96, 118) 85, (2) 176, (87) 371, 459—C, (26) 540, (76, 88, 93) 542, (57) 857, (49) 1031, (55) 1192, (13) 1272, (53) 1273, (29) 1527, (59) 1528, (91, 97) 1616, *1723, *1728, (92) 1796, (73) 1802, (1, 2) 1874
scopolamin-morphin anesthesia in, are women compelling physicians to use, 1933—ab
scoplamin-morphin anesthesia in home, (88) 618
scopolamin-morphin anesthesia in, in moving pictures, 1251—E
scopolamin-morphin anesthesia in, lecture and picture of, 2157—C
slow and difficult, common causes, (39) 467
tocanalgine in, (6) 1029
uterus fibroids in pregnancy and, (84) 371
with pelvis deformed by congenital dislocation of hip joint, (32) 1799
LABORATORY and general practitioner, (149) 1879
clinical, fitting up practical, (141) 2021
diagnosis of chronic infections of urinary tract in women, 2092—ab
diagnosis, place of, in medical practice, (35) 1875
motor, and motor operating theater, 602
municipal, possible functions of, (39) 178
observations, (53) 1942
report, Napa State Hospital, (38) 1941
work and general practitioner, (127) 1616
LABYRINTH deafness, unusual case, (45) 1192
inflammatory affections of (59) 541
otic, physiology of, (35) 272
studies of, (23) 272
tonus, *118
LABYRINTHITIS, operation for atresia followed by, (38) 1875
LABYRINTHITIS, suppurative, meningismus, and irritation of gasserian ganglion, (63) 1685
LACRIMAL concretions, (12) 2022
sac in chronic dacryocystitis, method of destroying, (114) 469
sac, intranasal drainage of, (100) 1529
sac, plasmoma of, (34) 1795
LACTATION, capacity of women for, (100) 376
LACTIC ACID bacillus in diabetes mellitus, *495
LACTOBACILLINE omitted from N. N. R., 1346—P
LACTOSE and charcoal in mercury poisoning, 530—ab
in milk, colloidal iron in determination of, (32) 1358
in milk, improved technic for test, (123) 1039
injected intravenously, effect of sodium bicarbonate on excretion of chlorids and, (45) 90
LACTOSURIA and pentosuria, diabetes mellitus complicated by, *508
LAMINECTOMY for wounds of spinal cord in war, (33) 1533
lumbar, streptococcus meningitis following, 2 cases, *2054
LAMP, quartz, Kromayer, Nagelschmidt modification of, in diseases of hair and scalp, (105) 1796
quartz mercury-vapor, for biologic and photochemical investigation, (42) 1358
LANDAU'S color test for syphilis, (130) 379, 686, 1182, *1461, 1520, 1677, (72) 1802, *1964, *1966
LANDOUZY'S typhobacillosis, (36) 184
LANE lecture for 1915, 64
LANE'S kink and hypothyroidism with chronic intestine stasis, (11) 2022
plate, dislocation of head of radius with fracture of ulna corrected by, (67) 1615
plate in operative treatment of fractures, (116) 1282
plate, modification of, 366—ab
LANGE colloidal gold test in cerebrospinal fluid, (48) 83
colloidal gold test in cerebrospinal fluid in infants and children, (2) 367
gold sol test in cerebrospinal fluid obtained post mortem, (28) 1191
gold sol test, varieties of, in several loci of cerebrospinal fluid system, (16) 1683
LANGENBECK-VIDI-HOW building in Berlin, 1256
LAPAROSCOPY, important operative indications learned from, (135) 1202
LAPAROTOMY, after-treatment, (33) 1451
camphorated oil in, 169
Crossen's method of precluding possibility of leaving gauze in abdomen, (117) 778
for large pyosalpinx, hydronephrosis developing twenty-one days after, (27) 1034
gallbladder calculus in 1066, for pelvic disease, (130) 1110
gastrectasis, visible acute, during, *2055
median subumbilical, in strangulated inguinal hernia in elderly, (53) 945
preparation of patients for, (64) 857
without retractors, (19) 1272
LAPLACE operation, (101) 543
LARVAE that penetrate human skin, (113) 1367
LARYNGITIS, tuberculous, (40) 1031
tuberculous, etiology and prophylaxis of, (34) 1273
tuberculous, familial, (111) 378
LARYNGOFISSURE for intrinsic cancer of larynx, results of, (11) 272
LARYNGOLOGY in French military hospitals, (24) 1945
LARYNGOPHARYNX, lymphoid growths of, secondary to sinus suppuration, *576
LARYNGOSCOPE, Killian's suspension, in diagnosis and surgery of larynx, (113) 1616
new, direct-view, self-retaining, (65) 541
LARYNGOSCOPY, suspension, in children, (110) 85
LARYNX, auscultation of, differential diagnosis of membranous croup by, (94) 1038
bronchoscope in direct examination of trachea, bronchi, esophagus and, (105) 1274
cancer, intrinsic, results of laryngofissure for, (11) 272
diseases, dry cupping in, (12) 698
disturbance in malaria (124) 94
diverticula, (17) 615
electrode for fulgurating, (64) 541
in lung tuberculosis, significance of, 650 cases, (54) 178
infection of epiglottis and, in children, tracheotomy, recovery, (15) 272
Killian's suspension laryngoscope in surgery and diagnosis of, (113) 1616
obstruction, two cases, (61) 1528
operations on tongue, throat and, technic of, (64) 623
papilloma of, radium in, (39) 1273
prolapse of ventricle of, (66) 1685
stenosis, chronic, tubes for treatment and intubation apparatus, *1066
stenosis, cicatricial, two cases, (11) 471
stenosis, following diphtheria, (93) 1690
stenosis in children, treatment of, (87) 92
topography of, (73) 84
tuberculosis, (3) 620
tuberculosis of tongue, lungs and, healed, (95) 275
tuberculosis, symptoms and diagnosis, (22) 857
wounds of, in war, (43) 1881
LATRINES, field, (69) 1457
LAUNDRY, free public, 1463—ab
sterilization, 1487—ab
LAVANDERA'S ankle, (140) 181
LAW governing conspiring of inmate of insane asylum to escape, 690—Ml
professional secrecy and society reports, (83) 284
LAXATIVE tablets containing strychnin, death from, 1781—C
LEAD colic, pathogenesis of, (66) 475
local action of, (52) 2098
meningitis, (73) 476
neuritis from cosmetics, *1573
poisoning among north Queensland children, (14) 372
poisoning, basophil granules in blood corpuscles sign of, (101) 1280
poisoning, chronic, pathology of, blood with, (69) 1199
poisoning, constipation from, hormonal in, (89) 1458
poisoning from cosmetics, *814, *1573
poisoning, ophthalmoplegia interna result of, (29) 616
poisoning, transmission of damage from, to offspring of intoxicated males, 866—E
workers, effects of military training on, (14) 1686
LECITHIN, action of, on tubercle bacilli and relation to experimental tuberculosis, (46) 83
colloidal silver with, in malignant tumors, (79) 696
LECTURES property of lecturer, 1435
LEECHES, (8) 183
scarcity of, as result of war, 678
LEG, amputation of, (105) 1616
amputation of, leaving weight-bearing stump, (81) 1537
amputation of, ventral decubitus in, (128) 1941
artificial, emergency, (61) 2103
artificial, improved technic for, (93) 92
artificial, use of, (84) 1537
fracture of both bones of, *308
fractures of, compound, treatment of, (106) 1616
fractures of, in war, extension for, (97) 1201
gangrene, traumatic arterial thrombosis with, (50) 2024
gunshot wounds of calves, (62) 375
nerve trunks of arms and, surgical intervention in lesions of, by military projectiles, 68
pain in lower back and, significance of, from orthopedic standpoint, (139) 1879
reamputation of, (142) 620
surgical anatomy of, (29) 1456
LEG ulcers, chronic, treatment of, (127)
ulcer, severe anemia with, 2162—ab
LEGAL and medical professions, different attitudes of, 1265—C
decisions affecting physicians, (68) 1115
question interesting physicians, (64) 1689
LEGISLATION, antimedical, menace of, (67) 857
conference on medical education, licensure and, 257
medical, (184) 87
medical, needed in Kansas, (70) 275
needed in constructive care of poor and mentally irresponsible, (185) 87
LEIDY on nature of bacteria, 1994—E
LEIOMYOMAS of stomach, (144) 2029
LEISHMANIASIS: See also Kala-Azar
LEISHMANIASIS, internal, tartar emetic in, (137) 952, (75) 1690
mouth, vagina, throat and vulva, (104) 1538
naso-oral, and oriental sore originating in Anglo-Egyptian Sudan, (8) 372
prophylaxis and specific treatment of, (55) 1947
tartar emetic in, (85) 1803
LENHARTZ treatment of peptic ulcer, (40) 1876
LENS, anterior surface of, annular concavity of, after traumatism, (171) 182, (136) 697
ring, anterior, following contusion, (144) 1797
LENTICULAR degeneration, progressive, (123) 1039, *428, 1937—ab
LEPER houses and medieval hospitals, (12) 471, (17) 545, (17) 943
LEPROSARIUM, 1338
bill passed, 841, 920
national, 64
LEPROSY, (101) 1943
and dermatitis venenata, (139) 2021
experimental study, (1) 1362
Is there primary lesion, (22) 1276
of upper respiratory tract, (29) 1273
pulse and temperature in, (38) 1614, (17) 1683, (43) 1795
radium and diathermy in, (9) 88
research, Sir George Turner victim of, 1173
LEPSO Company cure for epilepsy, 2006—P
LEPTOMENINGITIS, syphilitic, (56) 1359
LEUKEMIA, acute, (51) 700
benzol in, (12) 1111, (12) 1195, (34) 1614, *1734
benzol in splenomyelogenous, *505
in pregnancy, (28) 89
lymphatic, (38) 781
lymphatic acute, with corynebacterium lymphomatosis granulomatosae, *1630
lymphatic, in acute infection, after removal of spleen, (43) 616
myelogenous, (105) 1367
myelogenous, acute, (129) 626
myelogenous, benzol and Roentgen ray in, (80) 469
myelogenous, in infant 9 months old, 2167—ab
pathogenesis of, (119) 378
treatment of, aleukemia and, (81) 1366
LEUKOCYTE and platelet count, proportional, (91) 625
antitoxins and, (43) 178
classification, *1296
count, Arneth's, significance of, 1797
count, differential, in parotitis, (41) 944
count during digestion of bottle-fed infants, (2) 1682
count in inherited syphilis, (105) 286
extract, 54
extract, aqueous, Hiss, in lobar pneumonia, (82) 696
extract, aqueous, Hiss, protective value of, in acute infections in animals, (81) 696
in immunity reaction in pneumonia, (45) 1528
LEUKOCYTOSIS deceptive sign in abdominal hemorrhages, *1294

V. 19

LEUKONYCHIA, 930
LEUKOPENIA in fatal cases of pneumonia, (127) 1530
LEUKOPLAKIA buccalis, (57) 1942
LEUKORRHEA, (12) 1526
  treatment of, (54) 186
LEXINGTON Drug and Chemical Co., 847—P
LIABILITY for loss of life in burning of sanatorium, 364—MI
  for services of specialist, 1270—MI
  for services to injured employee, company not responsible, 1355—MI
  for wrongful detention of patient in hospital, 2089—MI
  of charitable institutions for negligence, middle course taken on, 1100—MI
  of railway carrier wrongfully taking away injured passenger, 2089—MI
  of sanatorium for negligence of nurse, 1786—MI
LIBRARIES, medical, value of, 1135—ab
LICE, destruction of, in prevention of typhus fever, 1504—E, 1995—E
  extermination of, (48) 782, (85) 1116, (76) 1690, (116) 1691, (132) 1692
  extermination of, nitrobenzol poisoning in attempts at, six cases, (117) 1691
  house flies as carriers of, (85) 1458
  hydrogen peroxid for, in eyelashes and brows, 2007—C
  metallic mercury to ward off, (78) 1199
  methylphenylether in extermination of, (94) 1623
LICENSE fee, money paid for, not recoverable, 1786—MI
LICENSING Christian Science healers, Puck on, 1353—ab
LICENSURE, conference on medical education, legislation and, 257
  medical, Kansas appoints commission to draft bill providing for single standard of, 250—E
LICHEN planus hypertrophicus retiformis, *1063
  planus, miliary, unusual clinical and pathologic findings, (55) 274
LIFE, human, movement for extending, (29) 694
LIGAMENTS, Broad: See Broad Ligaments
LIGHT, action of, on protoplasm, (25) 939
  and reproduction in vorticella, (3) 1189
  artificial, injury from sunlight and, clinical study of, (144) 868
  artificial, intensive, in wounds in war, (57) 1114
  as stimulant for metabolism, (116) 286
  effects of, on eye, (26) 2018
  exposure to air and, aids in healing extensive suppurating wounds, (95) 550
  in industries, (24) 177, (132) 276
  in suppurating wounds, (87) 549
  production by luminous bacteria, studies on, (16) 1794
  stroke, 1659—E
  tuberculosis and use of, 2087
LIMBS, artificial, (72) 2025
  artificial, first, (98) 1623
LIME, burns of eye from, 2158
  in bursa, subacromial bursitis with production of, (7) 692
LIP, epithelioma, roentgenotherapy of, (59) 1685, (138) 1693
  hemispasm of lower, (114) 93
  reading for adult deaf, Mueller-Walle method of, (98) 777
  retractor and mouth gag, *1909
LIPASE studies, (49, 50) 1451
LIPEMIA, (77) 695
  retinalis, (43) 1035
LIPINS in nutrition, (80) 941
LIPOIDS and blood production, (120) 1202
  degeneration of, (116) 1952
  estimation of acid-soluble phosphorus and, in serum, (11) 2096
  in immunity, (35) 1034
  substances in sediment of children's urine, (49) 185
LIPOMA, calcified, xanthomatosis in, (101) 1538
  maxillary antrum, (65) 1685
LIQUIDS, pasage of, from stomach, effect of various procedures on, *1052
LIQUOR, Austria and Hungary forbid offering of, to soldiers on way to front, 1257
LIQUOR, intoxicating, duties and rights of physicians prescribing, 1269—MI
  trade, Italy places more restrictions on, 755
LITERATURE, medical, logical classification of, (62) 2099
LITHOTRITE, new visual, (96) 618
LITTLE'S disease, rhizotomy for, (75) 1360
LITTLE-DÖDERLEIN method for obtaining lochial culture, aid to, (162) 180
LIVER abscess, (12) 2170
  abscess, acute appendicitis complicated by, (54) 1036
  abscess and valvular heart disease secondary to enteritis, (106) 1460
  abscess due to streptothrix, (11) 2168
  abscess in infant 5 weeks old, (3) 1685
  and intestine toxemia, (31) 1684
  angioma, cavernous, in infants 6 weeks old, (4) 1107
  arteriovenous anastomosis of portal vein wards off necrosis of, after ligation of hepatic artery, (104) 625
  autolysis, accelerating effect of manganous chlorid on, (30) 2096
  bile pigment production outside of, (107) 1538
  blood forming cells of, in congenital syphilis, with reference to lymphocytes and plasma cells, (59) 375
  cancer in child, primary, (11) 1526
  cancer, primary, in sheep, (32) 1034
  cancer, primary, operation for recurrence 7 years after primary operation, *1301
  cirrhosis and peritoneal tuberculosis, 80—ab
  cirrhosis in wild animals, (121) 180
  cirrhosis, spontaneous, in laboratory animals, *1487
  contusion of, diabetes mellitus following, (164) 627
  digestion of, tissue in Abderhalden serodiagnosis applied to alcoholics, (94) 948
  diseases and Abderhalden serodiagnosis, 81—ab
  diseases, heart in common types of, (97) 1685
  diseases of bile duct, pancreas and, recent progress in, (123) 551
  diseases of heart and, (75) 1199
  echinococcosis of, bile pigment derivatives in, (105) 551
  function and anesthetics, 1108
  function and ductless glands, 592—E
  function failure of, from focal infection, persistent glycosuria symptom of, (152) 544
  function, galactose test of, (28) 273
  function, phenoltetrachlorphthalein test of, (28) 273
  function, tests of pancreas and, literature on, 72
  glycogen, resistance of pups to late chloroform poisoning in relation to, (68) 775
  glyoxalase activity of, influence of hydrazin on, (35) 1358
  gunshot wound of, accumulation of bile in peritoneal cavity after, (54) 862
  necrosis of, chloroform, experimental, (50) 1451
  operations on bile tract and stomach, relation to, (50) 617
  outflow from, and portal and hepatic blood flow, (25) 368
  passive congestion of, simulating abdominal tumor, 465—ab, (110) 1109
  ptosis of, from perforated ulcer of stomach, (60) 1949
  sagging, operative fixation of, (70) 2026
  sagging, operative treatment of gallbladder calculus and, (80) 1802
  secretion in stomach, pancreas and, drugs that check or promote, (119) 1692
  selachian, histogenesis of, (1) 1272
  syphilis, (145) 1362
  syphilis, tertiary, (44) 1876
  syphilitic disturbance of spleen and, (152) 1694
  tumors, primary spontaneous, in mice, 1525—ab
LIVER, vasomotor reactions of, with reference to presence of vasomotor nerves in portal vein, (74) 1942
  wound, transpleural, bile pleurisy from, (66) 1948
LOBELIA, *431
LOCALIZATION, Bullets: See Bullets
LOCALIZATION, foreign bodies by roentgenoscopy, (49) 1277, (91) 1280
  foreign bodies in tissues, (20) 1455, (104) 2027
  of dropsy in wounded area, (26) 1456
  Roentgen-ray, apparatus for, (8) 1275
  Roentgen-ray, of metal foreign bodies in tissues, (54) 1198
LOCHIAL culture, aid to Little-Döderlein method for obtaining, (162) 180
LOCKWOOD, C. B., death of, 259
LOCOMOTOR ATAXIA: See Tabes Dorsalis
LODGE PRACTICE: See Practice, Lodge
LOEB, OSWALD, 442—E
LOEFFLER, FRIEDRICH, death of, 1337, 1861
LOMBROSO, CESARE, monument to, 1435
LONDON letter, 66, 162, 258, 354, 449, 602, 677, 755, 842, 921, 1010, 1088, 1172, 1257, 1339, 1513, 1595, 1670, 1776, 1863, 1927, 2003, 2080
LONGEVITY, blood pressure and, (34) 467
  of eminent physicians, (23) 88
LOUISIANA health car goes to San Francisco, 2079
  health methods, past and present, *869
  legislature endorses campaign against Wine of Cardui, 2085—P
  medical news, 751, 1005, 1168, 1591, 1922
  state board October report, 460
LUCAS-CHAMPIONNIERE'S method of treating fractures, 459
LUDWIG'S angina, (60) 371
LUETIN, 343
  Reaction: See Reaction, Luetin
LUMBAR PUNCTURE: See Rachicentesis
LUMBARD'S controller of tongue and palate for general anesthesia, *1757
LUNAR bone, isolated disease of, from standpoint of industrial insurance, (46) 700
LUNDVALL'S formula in dementia praecox, 5 cases, (180) 87
LUNG, abscesses in, treatment of, (153) 627
  adhesion of heart to thorax wall or, (52) 1688
  air embolism in deformed, in replenishing artificial pneumothorax, fatal, (16) 472
  bacterial diseases of, complicating lung tuberculosis, vaccine therapy of, (49) 1614
  bayonet wounds of, (87) 1950
  calculi in, (54) 945
  chronic poisoning of heart, kidneys and, operations on nose and throat in, results, (85) 2099
  collapse of, in decortication for traumatic empyema, (12) 1945
  complications of apoplexy, (74) 1274
  Compression: See Pneumothorax, Artificial
  disease of apex of, skeletal factors contributing to, (36) 90
  distension of, effect on respiration in man and dogs, (30) 1794
  echinococcosis of, (104) 285
  echinococcosis of pleura and, (96) 1117
  emphysema of, chondrectomy for, (163) 627
  ether, effect of, on kidneys and, (50) 178
  examination, (147) 627
  examination, system for, (125) 1368
  foreign body in, bronchoscopic removal, new method, *1906
  foreign body in, extraction of tack two years in, (76) 1884
  foreign body in, migration of, (42) 1364
  foreign body, turbinate, in, (61) 1528
  gangrene, after wounds in war, (86) 1366
  gangrene, intratracheal injections of medicated oil in, (96) 188
LUNG, gunshot wounds, (84) 284, (86) 864, (86) 1950, (71) 2025
  Hemorrhage: See Hemoptysis
  infections, (107) 469
  mycosis, due to iodium brasiliense, (126) 379
  non-tuberculous lesions of apex of, (97) 1117
  removal of one entire, experimental, (61) 91
  roentgenoscopy of conditions in, in children, (6) 1682
  stab wound of heart and, (95) 1117
  suppurations, non-tuberculous, *1554
  syphilis, (90) 1943
  syphilis simulating tuberculosis, *335
  Tuberculosis: See Tuberculosis, Lung
  ventilatory function of, in emphysema and asthma, (3) 538
  wounds, (66) 623, (43, 55) 1113, (37) 1456
  wounds, tardy pneumothorax after, (73) 1457
LUNGSAVA, Steven's and British Medical Association, 1994—E
LUPUS, copper salvarsan in syphilis and, (95) 1038
  erythematosus diffusus, tuberculin in, (41) 1684
  in children, 2 cases, (13) 1686
  vulgaris, inoculation of, with streptococcus, (142) 2021
LYMPH nodes, bacilli in blood, joint effusion and, in rheumatism, (90) 784
  calcified, producing symptoms of gallbladder calculus, (125) 1110
  enlarged, bacteriologic examination of, with Hodgkin's disease, (16) 1191
  enlargement of, at elbow with chronic polyarthritis, (59) 1114
  tuberculosis of, roentgenotherapy of, (124) 626
LYMPHANGIOMA, cecum, cavernous and cystic, *719
  congenital, over sternum, (14) 698
LYMPHATICS, origin of, in Bufo, (1) 538
LYMPHOCYTOSIS in blood as sign of constitutional disturbance in chronic gastro-intestinal disease, (82) 1622
LYMPHOGRANULOMA, bacteriology of, (95) 188
LYMPHOID and myeloid proliferation, associated, (71) 1802
  growth, infective, of laryngopharynx secondary to sinus suppuration, *576
  infiltration of orbit, discrete, (31) 1795
  tissues, staining for, (56) 475
LYMPHOMA, conjunctiva, (32) 1795
LYMPHOMATOSIS, aleukemic, (34) 2172
LYMPHOSARCOMA, (49) 178
  benzol in leukemia and, (12) 1195
  conjunctiva, (32) 1795

M

MACEWEN'S sign in diagnosing changes in intracranial pressure, 2167—ab
McGILL men on active service in war, 523
MACROPHAGES of mammals, (18) 1794
MACROSTOMA in human intestine, (27) 2022
MADELUNG'S deformity of wrist, (35) 1527
MADRID, sanitary brigade organized at, 161
MAGGOT trap for fly prevention, 1447—ab
MAGNESIUM sulphate anesthesia, nature of, (83) 948
  sulphate in tetanus, (100) 92, (96) 703, (116) 950, (74) 1115, (75) 1457, (92) 1459, (28) 1533
MAGNET, extraction of metallic foreign body from vitreous by, through scleral incision, (139) 697
  giant, in general practice, (109) 179
MAGNETISM, needles in tissues located by, (49) 940
MAINE medical news, 254, 1334, 1591
  state board March report, 1868
  state board November report, 1097
MAIZE flour, milling of, and health, 913—E

MAIZO-LITHIUM, 528—P
MALARIA, campaign against, 1036
campaign against, at Cuyamel, (26) 1273
campaign against, in California, (41) 1941
campaign against, in Formosa, (11) 372
campaign against, in Malay Peninsula, (19) 1880
carriers, (142) 1194
chronic, without fever or enlargement of spleen, (121) 866
Commission of Southern Medical Association, report of, (146) 1194
endemic, of Jeypore Hill, (19) 621
estivo-autumnal, quinin intravenously in 30 cases, (145) 1194
fatal and intense infection with, (20) 183
Hemoglobinuria: See Blackwater Fever
impounded water and, (141) 1194
in fowls, treatment of, (46) 280
in new province of Delhi, (18) 621
in Philippine General Hospital, Manila, during 1913, (123) 1275
in Philippines, (122) 1275
in Turkestan, (149) 552
laryngeal disturbance with, (124) 94
meteorology of, (30) 2022
mosquito bite, local reaction to, element in defense against, (118) 1039
mosquitoes conveying, losses to rural industries through, (143, 144), 1194
parasites, adult tertian, of peripheral corpuscular mounds, (17) 2169
pernicious, (54) 274
plasmodia, morphologic appearances of, (5) 1362
plasmodia, new varieties and species of, (62) 178
puerperium complicated by, (25) 1034
salvarsan in, 2 cases, (129) 1530
staining method for parasites and blood smears, combined, *2131
studies in, (31) 621, (16) 861, (23) 1276, (7) 1797, (26) 2022
tabes dorsalis, false, due to, (129) 379
transmission of, by different species of anopheline, 1426—E
typhoid, typhus and relapsing fever, resemblance of, (21) 472
MALIGNANT GROWTH: See Tumor
MALNUTRITION and obesity, (31) 1941
dietetic, in infants, treatment, (107) 1274
MALPRACTICE, action for, not maintainable against physician for miscarriage by woman taking abortifacient independently, 1186—MI
bases of damages for, and skill required of surgeon, 1356—MI
damages for, in treatment of fracture of limb, 1606—MI
in treatment of oblique fracture of clavicle, 1785—MI
not covered by casualty insurance, 462—MI
MALTA FEVER, agglutination in, (138) 2029
pregnancy and puerperium, (43) 2023
recent research in, (16) 1880
MANDIBLE: See Jaw
MANGANESE, colloidal, action of, on resisting powers, (118) 378
nucleate, influence of, on nitrogen metabolism, experimental research on, (100) 1117
MANGANOUS chlorid, accelerating effect of, on liver autolysis, (30) 2096
MANGO rash, observations on, (111) 1529
MANIA, acute, (113) 705
acute, after use of atropin in eyes, (107) 371
MANILA, Asiatic cholera in, in 1914, clinical observations on, *1148
MANNERISMS and psychic life, (71) 857
MANSLAUGHTER in death from Roentgen rays, 77—MI
MANUFACTURERS of and dealers in food, care required of, 173—MI
MANURE, horse, winter flies and importance of disposing of, throughout the year, 669—E
MARIE, DR., wounded, 355
MARINE expeditionary force in Mexico, experiences with, (151) 544, (134) 620
MARRIAGE, annulment of, concealment of tuberculosis ground for, 1024—MI
consanguineous, 452
for women with nervous or mental disease, (77) 624
impotency cause for annulling, (144) 1694
of the tuberculous, 531
Wassermann reaction as clinical test with bearing on, *1463
MARYLAND homeopathic December report, 688
medical news, 351, 445, 520, 599, 672, 751, 838, 917, 1005, 1083, 1168, 1253, 1334, 1507, 1591, 1771, 1856, 1922, 1998, 2075
public health education in, 1166—E
state board December report, 1444
MASSACHUSETTS Hospitals for Insane, extension of outpatient work in, (27) 1527
medical news, 158, 255, 520, 599, 839, 917, 1006, 1083, 1168, 1253, 1334, 1507, 1922, 2076
state board July report, 533
state board March report, 2011
state board September report, 266
MASSAGE and immobilization in hyperflexion in fracture of elbow, 100 cases, (132) 1111
and mobilization in traumatic joint affections, (36) 1527
heart, from below diaphragm, (45) 1535
in writers' cramp and wryneck, (17) 1357
surgical, (35) 1618
under superheated air, (66) 1801
MASTICATION of palatable food, augmentation of human gastric secretion by, 1585—E
MASTITIS, chronic cystic, (135) 379
in pregnancy, (40) 273
literature on, 2008
MASTOID abscesses, indications for operation, (99) 1878
cavities, plastic operations in large, (20) 857
operation without artery forceps or ligatures, (69) 618
rhinopharynx and middle ear, *115
MASTOIDECTOMY, double radical, in dementia praecox with mental and physical improvement, (21) 272
MASTOIDITIS, double, with septic sinus thrombosis, (119) 942
fulminating otitis media and sigmoid sinus thrombosis, (86) 1032
insidious, (105) 1943
mucous, case of, (82) 371
primary, case of, (67) 2019
resolving, obscure cases, operation, (19) 272
MATAS endo-aneurysmorrhaphy, experiences with, (85) 371
restorative operation for popliteal aneurysm in girl, (4) 1033
MATERNITIES, district, in Germany, 1926
MATURITY, precocious, in girls, (7) 773
MAXILLARY antrum, exploratory puncture of, difficulties and dangers of, (28) 943
antrum, lipoma of, (65) 1685
Bone: See Jaw
MAY'S Epilepticide, 1178—P
MAYDL'S operation, *205
MAYO Foundation and University of Minnesota, principles of affiliation of, (79, 81) 1193, 2009, 2072—E
foundation from standpoint of graduate school, (80) 1193
MEAL, test, *569
test, examination in stomach symptoms, value of, (15) 938
water with, desirable influence of, 59—E
MEASLES, 828—T
antianaphylaxis to, (88) 1690
emphysema in, generalized, subcutaneous, (35) 1364
epidemiology of, in Cleveland for 1913, (26) 368
immunity of infants to, (103) 1623
immunization against, 1790—ab
incubation, infectivity, immunity and early manifestations, (14) 540
necrosis in skin after, multiple patches of, (88) 1117
MEASURING board for infants, (106) 1878
MEAT, cured, redness of, 744—E
days without, (85) 1038
frozen, for army, 2082
MEAT, importation of, in Italy temporarily suspended, 523
ingestion, influence of, on aminoacid content of blood and muscle, (80) 1876
inspection service, federal, and sanitation of packing houses under its supervision, (18) 1450
new state regulations in regard to cattle and, (125) 94
preserved, for armies, 68
rabbit and horse, (60) 1457
MECHANOTHERAPY for wounded, (121) 1602
for wounded, cord and weight device for, (48) 1688
MEDAL, Willard Gibbs, awarded, 1435
MEDIAN and ulnar nerves, neuroplasty of, (80) 776
nerve, painful injury of, (18) 1532
nerve, wounds of, pain after, (27) 1456
MEDIASTINITIS, diagnosis of, (43) 1876
MEDIASTINOTOMY, transsternal, in removal of mediastinal thyroid, (108) 2020
MEDIASTINUM, metastasis of cancer in, symptoms of, (134) 952
tumor, (114) 1878
tumors, diagnosis of, (148) 1879
tumors mixed, (149) 627
tumors, operation to relieve pressure from, (65) 1036
tumors, primary (4) 277, (99) 2020
MEDICAL corps of navy, full complement of qualified physicians for, (103) 1943
Economics: See Economics, Medical
Education: See Education, Medical
officer, when is he a soldier, (102) 1943
papers, construction of, (36) 541
Practice Act: See Medicine Practice Act
reserve corps camps of instruction, 1256
reserve corps, inactive, final plea for, (103) 179
service school, New Jersey, report of, (101) 179
MEDICINE, American and European methods in surgery and, (94) 1529
and surgery, half century of, (94) 1616
beginnings of, in middle west, (20) 1684
courses in, in Vienna, suspension of, 361—C
eighteenth century, picture of, *629
fads in, (44) 541
fraud in, mystery the foundation of, 444—E
higher degrees in, and university, *790
history of fads and fancies in, (72) 1796
history of medical instruction in 17th century, *1373
in China, (10) 2168
in early seventies in county infirmary in Ulster, (11) 544
in London, impressions of, (65) 468
military, (101) 85
modern, and social responsibilities, (107) 275, (108) 543
modern, influence of science on, (15) 620
modern, profit and loss account of, (104) 371, 1099—ab
of Old Testament, (60) 2099
one hundred years ago, (118) 1943
physician not liable for taking of wrong, 172—MI
pipet holder, *1318
practice of, by clairvoyants, 535—MI
practice of, efficiency of, (85) 1453
practice of, in Mexican mining camp, (101) 469
practicing, unlawfully, defects in information and trial for, 1355—MI
preventive, (152) 698, (6) 2016
preventive, and periodical examination, 171—ab
preventive, at university of California, 169
preventive, baby health contest educational factor in, (153) 698
preventive, Cutter lectures on, 353
profession of, changed position of, (14) 1357
religion confused with, (79) 618
socialization of, (145, 147) 620
year's progress in, (52) 695
MEDICOLEGAL aspects of industrial accidents, lectures on, 2080
MEDICINE standpoint, professional secrecy from, (79) 1949
MEDITERRANEAN FEVER: See Malta Fever
MEDIUM, canned nutrient, for cultures, (64) 1365, (38) 2102
culture, improved technic for, (81) 1690
culture, starch agar, (35) 2037
MEDULLA oblongata, cavity formation within, *988
MEETINGS, medical, at Panama-Pacific exposition, 1435, (77) 1529
MEGACECUM, idiopathic, *1062
MEGACOLON and microcolon, (5) 1272
treatment, (71) 2105
MEHNARTO, contratoxin No. 4, injections of, and opsonins in blood serum in tuberculous patients, (10) 2169
MELANCHOLIA, (104) 188
MELANOSARCOMA: See Sarcoma, Melanotic
MELANOSIS of conjunctiva, (113) 469
MEMORY and education, 219—ab
defect, typhoid with permanent, 2 cases, (4) 1939
loss of, alleged by murderers, (66) 1032
loss of, and progressive dementia after attempt at suicide by hanging, (88) 2106
MENIERE'S DISEASE, case of, (8) 943
MENINGES, hemorrhage, spontaneous, curable, in young, (43) 1946
of brain, round cell, sarcoma of, (98) 1796
MENINGISMUS, suppurative labyrinthitis, and irritation of gasserian ganglion, (63) 1685
MENINGITIS, actinomycotic suppurative, 2 cases, (67) 2025
carriers found, 841
cerebrospinal, (10) 1362, (10, 124) 1530, (5) 1616, (31, 33) 1945
cerebrospinal, among soldiers in England, 673, (2) 860, 1257, 1513
cerebrospinal, and diphtheria, in Salisbury Plain camp, 353
cerebrospinal, and sphenoidal sinus, (13) 2169
cerebrospinal, antimeningococcus serum and autogenous vaccine in, (12) 943
cerebrospinal, diagnosis and prophylaxis, (11) 1275, (9) 1362
cerebrospinal, diagnosis and treatment, (65) 1273, (3) 1453
cerebrospinal, drainage of lateral ventricle in, (51) 1031
cerebrospinal, epidemic, (154) 544, 1158—T, (10) 1275, (16) 1686, (34) 1875, (6) 1944, (29) 1945
cerebrospinal epidemic, diagnosis and treatment, (5) 2022
cerebrospinal epidemic, Flexner's antimeningitis serum in, (7) 1683
cerebrospinal, epidemic, from bacteriological standpoint, (52) 1031
cerebrospinal epidemic, in children, serotherapy of, (122) 619
cerebrospinal epidemic, in infants, 8 cases, (6) 2022
cerebrospinal epidemic, meningococcus in etiology of, (2) 1454, (9) 1879
cerebrospinal epidemic, serotherapy of, (113) 626
cerebrospinal, epidemic, simulating typhus, (56) 1113
cerebrospinal, epidemic, traced to Valcartier camp, 602
cerebrospinal, epidemic, treatment of, (9) 1195
cerebrospinal, meningococci in peripheral blood films, (19) 1617
cerebrospinal, outbreak of, ban on kissing, 1011
cerebrospinal, outbreak of, in Dublin military district, (14) 2022
cerebrospinal, purulent streptococcic, treatment of, (129) 858
cerebrospinal, treatment of, (32) 1945
chronic, of otitic origin, (17) 272
clinical and bacteriological experience with, in New York, (1) 367
diabetes insipidus following, (133) 1202
diagnosis and treatment, (158) 544
diphtheria complicated by, (112) 93

MENINGITIS from extension to ventricles of suppuration following gunshot wounds of brain, (114) 2027
influenzal, 1161—T
in newborn infant, 2166—ab
lead, (73) 476
meningococcus and tubercle bacilli in, (25) 183
purulent, following penetration of eyeball by fish-hook, (27) 616
septic, crystals in cerebrospinal fluid in, (12) 1455
serous, circumscribed, (78) 1615
streptococcus, (9) 773
streptococcus, lumbar laminectomy followed by, 2 cases, *2054
sympathica, 2013—ab
tuberculous, 173—ab, 1522—ab, (8) 1683
tuberculous, and tabes dorsalis in pregnancy, (84) 1032
tuberculous, death due to, after removal of tuberculous cyst of mesentery of jejunum with segment of bowel, (125) 1110
tuberculous, hemiparesis and hemiplegia as early symptoms of, (17) 540
tuberculous, intradural tuberculin in, (82) 1280
typhoid, primary, (120) 543
MENINGOCOCCUS arthritis, (49) 1688, (34) 1881
in cerebrospinal fluid, sugar enrichment to detect, (52) 2103
in etiology of epidemic cerebrospinal meningitis, (2) 1454, (9) 1879
in peripheral blood films in cerebrospinal meningitis, (19) 1617
meningitis with tubercle bacilli and, (25) 183
MENINGOMYELITIS, spinal decompression in, (82) 776
syphilitic, (140) 2029
MENOPAUSE, uterus hemorrhage at and after, (47) 1941
MENORRHAGIA, radium in uterus fibroids and, (74) 1032
roentgenotherapy in uterus myoma and, (83) 179
MENSTRUATION, conditions affecting, after operations on ovaries, (103) 1281
corpus luteum and, (42) 374
cycle, normal and pathologic physiology of, (23) 1532
disturbed, surgical treatment of, (129) 1616
influence of, on breast milk, (3) 1682
influence of, on hemolysis by vaginal bacteria, (73) 283
ovaries as factor in, 1246—E
MENTAL attitude of patient, therapeutic importance of, (18) 1357
deficiency act, certification under, (9) 943
Diseases: See Mind, Diseases of
feelings just prior to accident, proof of, 690—MI
hygiene, national committee for, meets, 754
MERCURIALIZED serum in syphilis, intravenous injection of, *1471
MERCURY and neosalvarsan in unilateral luetic palsy of abducens, (144) 620
and salvarsan in syphilis, (42) 1192
arsenic and iron compounds for syphilis, (81) 1115
bichlorid in acute rheumatism, Bacelli method of intravenous injection of, 1348
bichlorid poisoning, acute, distribution of mercury in body in, (75) 941
bichlorid poisoning, hydraulic irrigation through cecostomy operation for, (139) 1110
chlorid, intravenous injection of, in acute articular rheumatism, (135) 952
chlorid poisoning, *507
chlorid poisoning in animals, parenteral administration of Hall's new antidote in, *736
chlorid poisoning in Italy, (103) 866
collosols of silver and, bactericidal action of, (8) 620
deep muscular injections of, in diseases of vegetable parasitic origin, (74) 275
deep muscular injections of, in pyorrhea alveolaris and secondary systemic infections, (92) 1109
MERCURY derivatives of aromatic amines, (78) 1876
excretion of, by gastric mucous membrane, *2041
insoluble preparations of, injection of, dangers from, (108) 866
metallic, to ward off lice, (78) 1199
nephritis, (14) 2017
poisoning, exposure of dentists to, 1386—E
poisoning, milk sugar and charcoal in, 530—ab
preparations, action and absorption of, (49) 1456
preparations, comparative toxicity of, 936—ab
salicylate, intramuscular injections of, painless method, (98) 1360
succinimid, intramuscularly, in gonorrhea, (69) 1528
vapor lamp to sterilize water for surgical purposes, (39) 1112
MESENTERY cysts, (37) 700
fibromyxosarcoma in boy of two, (99) 1367
frog's, derivation of white from red corpuscles in blood in, (91) 1367
separation of, and resection of cecum and ascending colon, recovery after, (99) 1537
tuberculosis and lobar pneumonia, (89) 1685
tuberculosis followed by general tuberculosis, (16) 943
tuberculosis, preoperative diagnosis of, (12) 856
tuberculosis, primary, (115) 1110
tuberculous cyst of, removal of, with segment of bowel, death later due to tuberculous meningitis, (125) 1110
vessels, obstruction of, (99) 948
vessels, superior, in abdominal disease, 1789—ab
thrombosis of, (119) 1282
MESOTHORIUM in cancer of female genital organs, (80) 187
in uterus cancer, (123) 1202
radium and roentgenotherapy, (144) 86
MESS efficiency, (102) 1109
METABOLISM, basal, factors affecting, (40) 1358
basal, in obesity and hypophysis cerebri disease, studies on, (53) 1451
basal, of normal men and women, comparison of, (39) 1358
basal, of normal men, determination of, and effect of food, (4) 2095
before and after splenectomy in congenital hemolytic jaundice, 2163—ab
carbohydrate, clinical aspects of, (51) 541
carbohydrate, studies in, (34, 35) 1358
cell, physiologic and pathologic, (8) 1879, (8) 1944
cholesterol, of hen's egg during incubation, (9) 2095
defective, results, (116) 543
diseases of, clinical laboratory methods in, (10) 1879
endogenous, uric acid, studies in, (46) 468
energy, of infants, respiration incubator for, (4) 367
energy, of ten hospital children, (3) 773
energy, of 2 months' old infant fed on prolonged protein-rich diet, 2094—ab
extra-intestinal, (55) 375
faulty, treatment of pregnancy disturbances on basis of, (56) 1801
gaseous, and body surface of flounders, (24) 693
gaseous, gas exchange and respiratory mechanism, late effect of division of pulmonary branches of vagus nerve on, (29) 1794
hemoglobin pigment, working hypothesis of, (15) 1190
in chronic urticaria, (73) 618
in etiology of secretions of middle ear, (16) 272
infant nutrition and, studies on, (7) 1272
iron, and iron in anemia, experimental work on, (126) 276
light as stimulant for, (116) 286
mineral, in infants on breast milk and albumin milk, (88) 2026
newer aspects of, 1326—E
METABOLISM, nitrogen, and manganese nucleate, experimental research on, (100) 1117
nitrogen, and nonprotein nitrogen of blood in experimental uranium nephritis, (30) 272
nitrogen, in dermatoses, (21) 699
nitrogen, in rabbits, effect of anaphylaxis on, (48) 90
of athletes and normal individuals of like weight and height, (38) 1358
of minerals in two boys, (165) 627
of typhoid patients with and without food, calorimetric observations on, (7) 2095
of vegetarians, (37) 1358, 1425—E
pathologic, in parental organism responsible for defective development of offspring, (9) 2168
protein, of white races in tropics, (2) 1362
salt and water, in healthy, experiments in, (46) 90
transformation of energy and, in atrophic infant, (76) 187
uric acid, studies on, (85) 1877
ward, organization of small, (3) 2094
METACARPAL and metatarsal bones, second ossification center found in first, in prehistoric skeleton, (23) 1455
fourth, symmetrical development defects of, (10) 692
fracture of, splint for, *586
METAL, poisoning from, (116) 372
METASTASES, bone marrow, and anemia in stomach cancer, (19) 943
bone, or skeletal cancer, (39) 1614
cancer, in mediastinum, symptoms of, (134) 952
infections from, (49) 774
infections from, acute surgical, bones and joints, (113) 1032
malignant papillary cystadenoma of kidney with, (154) 180
of furuncles, (69) 863
METATARSAL and metacarpal bones, first, ossification center found in, in prehistoric skeleton, (23) 1455
METCHNIKOFF, Elias, seventieth birthday of, 2080, 2082
METHYL alcohol inhalation, changes in blood and aqueous humor in, (37) 1795
alcohol poisoning, atrophy of optic nerve following, (62) 83
violet in local treatment of wounds, (93) 1623
METHYLENE blue test for purity of milk, (32) 184
METHYLPHENYLETHER for extermination of body lice, (94) 1623
METOL dermatitis, 610
METRIC system and new pharmacopeia, 1011
METRORRHAGIA: See also Uterus Hemorrhage
METRORRHAGIA, roentgenotherapy of uterus myomas and, (53) 1528
MEXICAN republic, many years of professional experience in, (107) 1360
MEXICO, marine expeditionary force in, experience with, (151) 544, (134) 620
MICHELAINES or knitted scarf for soldiers, 353
MICHIGAN medical news, 446, 672, 839, 1083, 1168, 1334, 1432, 1665, 1998
state board October report, 930
state board reciprocity report, 1783
MICROCALORIMETRY applied to animal tissues, (5) 2167
MICROCOCCUS: See also Bacteria
MICROCOCCUS endocarditis rugatus, endocarditis of pulmonic valve due to, (10) 1793
melitensis, Bruce's, and its toxins, effect of, on peripheral and central nervous system, (50) 90
MICROCOLON and megacolon, (5) 1272
MICRO-ORGANISMS, pipette method in isolation of, and in inoculation of substances into living cells, (155) 87
priority in identifying, as plant forms, 1994—E
MICROSCOPE, invention of, *1379
table, diagnosis, with, reliable method for, *1909
MICTURITION: See Urination
MID-WEST Academy of Ophthalmology and Oto-Laryngology meeting, 1858
MIDWIFE, (103) 371
problem in Virginia, (116) 276
MIDWIFERY, William Hunter and his work in, (7) 943
MIGRAINE, paralytic and persistent sequelae of, 2012—ab
scotoma of, (21) 1880
MIKULICZ' disease, (134) 867
congenital affection resembling, (37) 1533
MILITARY health service, improvement of, 524
Hygiene: See Hygiene, Military
medical service, improvements in, 1258
surgeons, congress of, in Brussels, 1862
Surgery: See Surgery, Military
MILK, acid formed in cream and, number of streptococcus lacticus and amount of, (62) 1358
albumin, (127) 942
albumin in enterocolitis, (92) 1685
albumin in infant feeding, advantages and results of, (55) 1535
bacteria in, enumeration of, (116) 469
breast, influence of menstruation on, (3) 1682
breast, mineral metabolism in infants on albumin milk and, (88) 2026
casein and salts in, condition of, (78) 941
casein calcium, Stoeltzner's, in summer diarrheas of infants and children, (32) 82
cellular elements in, nature of, (27) 1880
certified, (40) 178
clean, fitting out stable for production of, (135) 276
clean, in small town, (84) 1685
condensed, (75) 857, 1646—ab
consumption of, in Philippines, 1099—ab
cow's, antibodies to, in infant's blood, (105) 1460
cow's, modified, for infant feeding, reaction of, (84) 696
cow's, permeability of infant intestine for casein of, (67) 476
cream line of, effect of pasteurization on, 2173—ab
differentiation of human and cow's, by color test, (22) 540
feeding, influence of, on mortality and growth and on character of intestinal flora, (49) 1528
fermentation test in examination of, (133) 276
homogenized olive oil-fat-free mixtures in difficult infant feeding, 2165—ab
human, (91) 1878
human, adaptation of artificial food to, 2165—ab
human, composition of, 2165—ab
humanized, in infant feeding, (75) 2019
infant feeding with top, (87) 179
in medical practice, (91) 1037
lactic acid in, germicidal effect of, (45) 2096
lactose in, colloidal iron in determination of, (32) 1358
methylene blue test for purity of, (32) 184
modification, cereals in, (78) 1032
of cows immunized against tuberculosis, protective principles in, (64) 1883
pans and bottles, disinfection of, with calcium hypochlorite, 1019
pasteurization, making a public nuisance of, 1870—MI
pasteurized, and bacillus colon, *1289, 1767—E
pasteurized, and infantile scurvy, 835—E
pasteurized, microscopic test for, *821
problem, (41) 178
pure, for infants, importance of, (2) 81
pure, validity of ordinance to secure, 1100—MI
secretion, effect of pituitrin on, (9) 856
skimmed, and foot and mouth disease, 1065—ab
staphylococcus albus in udder of healthy cow cause of poisoning, (112) 1529
supply and foot and mouth disease, 1920—E
supply of entrenched camp of Paris, 356
supply, relation of city to, (28) 694

MILK, sweetened condensed, for uncontrollable vomiting of infants, (101) 285
tonsillitis due to streptococcus isolated from, (85) 696
tonsillitis epidemic in tuberculosis patients due to, *1127
MILLER Medicine Company, 2006—P
MILLING corn, (maize) flour and health, 913—E
MIND, abnormal states, (141) 86
arteriosclerosis and diseases of, (80) 179
behavior chart in diseases of, (8) 1939
colloidal gold test on spinal fluid in general paralysis and diseases of, (81) 1529
defect, borderline cases in, with reference to hysterical symptoms, (23) 1527
diagnostic value of hallucinations in disease of, (85) 777
disease, indications of, and treatment, *878
disease, perversions of consciousness in, (105) 942
disease, treatment of, in general practice, (104) 1109
disturbances of, in feebleminded, 1937—ab
exophthalmic goiter and mental changes, 1850—E
hydrotherapy in diseases of, *1650
internal secretion and diseases of, (147) 380
opinions of attending physicians and others as to mental capacity, in contest of will, 462—MI
pathology of disorders of, of modern aspects of problems in, (18) 183, (7) 277, (32) 373
pellagra and nervous and mental diseases, (10) 539
point scale in measuring capacity of, (45) 82
postoperative nervous and mental disturbances, (8) 1793
psychic factors in disorders of, (5) 1939
psyorrhea in etiology of nervous and mental disease, (71) 941
recent work in nervous and mental disease, (37) 1196
serodiagnosis nervous and mental disease, Abderhalden, (8) 937, (131) 1039
soldiers and mental diseases, 163, (81) 549, 678
test of mental capacity, value of, and relation to service, (119) 1539
tests of mental capacity, in examination of applicants for enlistment, (121) 1530
thyroid extract in disorders of, (8) 88
unconscious phenomena, (97) 942
wounded, nervous and mental status of, (56) 1365
MINE, coal, fatalities, 1831—ab, 2144—E
MINERAL metabolism in infants on breast milk and albumin milk, (88) 2026
mud of Black Sea region, therapeutic action of, (58) 945
Water: See Water, Mineral
metabolism of, in two boys, (165) 627
MINING camp, practice of medicine in Mexican, (101) 469
industry, safety in, 61—E
MINNESOTA medical news, 351, 446, 672, 751, 1006, 1083, 1168, 1334, 1432, 1666, 1995
sanitary survey of, 172—ab
state board April report, 2159
state board January report, 1184
state board October report, 764
MIRAGLIA, memorial to, 755
MIRROR, Glatzel, improved, (64) 1685
MISCARRIAGE, septic, acute intestine obstruction following, (21) 1798
MISSION fields, physicians needed for, 1669
medical, in Serbia, 1089
medical, in Siam, (54) 1685
medical, Rockefeller fund for, in China, 1256
MISSIONARY Association, Medical, of China, work of, (52) 1685
American sanitary, 1855—E
medical, in interior China, experiences of, (78) 702
MISSISSIPPI county medical society, (39) 616
medical news, 839, 1083, 1772
MISSISSIPPI state board October report, 687
MISSOURI, constitution in, adequate health work impossible under, (99) 619
feebleminded in, (100) 1194
Institute of Public Health,(100)619
medical news, 255, 599, 918, 1083, 1253, 1335, 1666, 1922, 2076
state board December report, 930
state board March report, 2159
state board September report, 611
MITE causing Japanese river fever, (120) 1039
MITHRIDATIUM and theriac, (8) 2168
MITOCHONDRIA in tissue cultures, (3) 1272
vital staining of, with janus green and diethylsafranin in human blood cells, (84) 376
MOLD, action of, on crude drugs, 1587—E
diseases, peculiar, (35) 857
MONEY paid for license fee not recoverable, 1786—MI
MONGOLISM, (86) 784, (131) 1033
and syphilis, *1636
MONILIA in sprue, *810
relation of, to fermentative conditions of intestine in Porto Rico, *1893
MONOHALOGENACETYLBENZYLAMINS and hexamethylenetetraminium salts, (88) 1877
MONOMANIA, insane delusions and testamentary capacity, 1606—MI
MONTANA medical news, 672, 918, 1432
state board October report, 460
MONTESSORI education for children with defective vision, (1) 1944
MORBIDITY reports, uses of, 290—ab
MORPHIN, *509, *586
addiction, (110) 1685
addiction, combretum sundiacum in, 1349
addiction, treatment for, 927—C
allyl, pharmacologic action of, (59) 946
and heroin habits, relative frequency of, (127) 1797
and scopolamin, *588
and scopolamin anesthesia in labor, (96, 118) 85, (2) 176, (87) 371, 459—C, (26) 540, (76, 88, 93) 542, (57) 857, (49) 1031, (55) 1192, (13) 1272, (53) 1273, (29) 1527, (59) 1528, (91, 97) 1616, *1723, *1728, (92) 1796 (73) 1802, (1, 2) 1874
and scopolamin anesthesia in labor, are women compelling physicians to use, 1933—ab
and scopolamin anesthesia in labor in home, (88) 618
and scopolamin anesthesia in labor in moving pictures, 1251—E
and scopolamin anesthesia in labor, lecture and picture of, 2157—C
and scopolamin as preliminary to local anesthetics, (113) 85, (148) 1944
effect of, on intestine motility, (24) 1030
for painless labor, (25) 89
heredity, (134) 880
in obstetrics, (39) 546
intraspinal injection of, *1494
sterilization of solutions of, (42) 474
strychnin symptoms after large doses of, 1867—C
MORTALITY, American, elements of, 1976—ab
diseases with highest, 1810—ab
Infant: See Infant Mortality
Statistics: See Statistics, Vital
MOSES, the father of preventive medicine, 151—ab
MOSQUITO, (10) 629, (10) 943, (6) 1033, (4) 1530, (13) 1945
bite, local reaction to, element in defense against malaria, (118) 1039
extermination, *1836
extermination in Essex county, (90) 542
flight of, 458—C
of Kabinda (Lomami), Belgian Congo, (4) 1362
MOTH, brown-tail, poison glands of larva of, (63) 178
MOTHER, prospective, care of, (14) 1683
schools for, 1010
tuberculin reaction in breast-fed infant after diagnostic dose to, *1312
MOTHERHOOD, endowment of, *122
MOTOR aphasia with fracture at base of skull, *1233
apraxia fom lesion of corpus callosum, (111) 866
MOTT'S law of anticipation, 1767—E
MOUTH as source of systemic infection, (70) 1274, (4) 1275
gag with lip retractor, *1909
infection and vaccines, (59) 468
infections, responsibility of physician in, (66) 2019
inflammation of mucosa of, (91) 376
leishmaniosis of, (104) 1538
light, electrical, (65) 1528
osteitis of, in relation to arthritis, (93) 1109
pemphigus of throat and, (24) 272
phenomena in throat and, during prodrome of smallpox, 1681—ab
sepsis and pyorrhea alveolaris, (115) 1616
speculum, *1580
syphilis, (70) 941
trichomoniasis of vagina and, (25) 1875
white spots in, sign of syphilis, (24) 2171
MOVEMENTS, automatic, during sleep, (52) 1113
MOVING pictures, twilight sleep in, 1251—E
MUCOCELE of frontal and ethmoidal cells, (100) 1453
MUCOSA, cauterization of, particularly of nasal mucosa, protest, (14) 272
intestine, reflexes from, to stomach, (21) 694
mouth, inflammation of, (91) 376
nose, inflammatory affections of accessory sinuses and, in children, (50) 1358
stomach and duodenum, influence of removal of suprarenals and one-sided thyroidectomy on, (54) 2098
stomach, experiments on transplantation of, (124) 470
stomach, sensibility of, (18) 694
uterus, glycogen content of, (133) 952
MUD, mineral, of Black Sea region, therapeutic action of, (58) 945
MUELLER-WALLE method of lip-reading for adult deaf, (98) 777
MUFFLERS, handy, for soldiers, (28) 184, 353
MUMPS: See Parotitis
MUNICIPAL laboratories, possible functions of, (39) 178
sanitation, observations and suggestions on, (132) 778
MURDER, conviction of, affirmed where defense was epileptic insanity, 1187—MI
MURDERERS, loss of memory alleged by, (66) 1032
MURMURS, intracranial, 66 cases, (134) 94
MURPHY, J. B., to organize hospital for service in England, 1670
MUSCLE, abdominal, insufficiency of, in tuberculous, gastro-intestinal disturbances from, (60) 946
abdominal, segmental innervation of, (138) 627
abducens, syphilitic palsy of, neosalvarsan and mercury in, (144) 629
amino-acid content of, blood and, influence of meat ingestion on, (80) 1876
atrophy, chorea mollis with, (66) 857
biceps flexor cubiti, rupture of, 8 cases, (27) 1940
chest, atrophy and rigidity of, in tuberculosis, (76) 91
extensor pollicis longus, spontaneous rupture of, paralysis of ungual phalanx of thumb due to, *1138
extra-ocular, (80) 858
hands, atrophy of small, spinal cord in, (55) 2098
innervation of, (95) 1280
ocular, exophthalmic goiter with complications in, 2 cases, (137) 697
ocular, in heterophorias, operative procedures of, (23) 774
pectoralis major and minor, right, congenital absence of, *508
psoas, foreign body in, (73) 857
MUSCLE, recti, traumatic paralysis of both external, (26) 82
right external oblique, rigidity of, in appendicitis, 1931—C
shortening and lengthening, new operative procedures for, (118) 276
smooth, effects of chelidonin on, in intact and surviving organs, (53) 1107
striated, tonus innervation of, (111) 705
tissues, transplantation of nerve and experimental plastic operations, (72) 946
MUSEUM, Association of Medical, meeting, 1511
of fatigue-eliminating devices, 145—ab
MUSHROOM poisoning, case due to amanita phalloides, *1230
MUSTARD, idiosyncrasy to horseradish and, 1096
MYCOSIS fungoides limited to one foot, (28) 2018
of lungs due to oidium brasiliense, (126) 379
of skin from wearing woolen underclothes, (39) 184
with red saccharomyces, 7 cases, (115) 286
MYELITIS, apoplectiform, case of, (131) 379
in child, (4) 1944
MYELOID and lymphoid proliferation, associated, (71) 1802
MYELOMENINGOCELE, spina bifida with, removal of myelomeningocele and closure of cleft by transplantation of bone, (38) 376
MYELOSIS, aleukemic, (106) 377, (110) 626, (110) 705
MYIASIS of urinary passages, (148) 544
MYOCARDITIS, (50) 1942
chronic, cardiovascular load in pneumonia and, (89) 1453
chronic parenchymatous nephritis with, (123) 697
MYOCARDIUM, abnormalities of function, diagnosis of, (33) 1107
changes in, following infectious fevers, (86) 618
how to tell whether it is competent, (45) 939
pathologic-anatomic changes in heart ganglia and, in scarlet fever, (69) 91
MYOCLONUS, (144) 552
and paramyoclonus, epileptic, (98) 1118
MYOFIBROMATA, supravaginal hysterectomy for, temperature range after, (110) 858
MYOMA, pregnancy and, (50) 1795
stomach, (128) 867
uterus, and malignancy, (97) 85
uterus, and retrodisplacement, with extra-uterine and normal pregnancy simultaneously, (101) 1623
uterus, cervix, (98) 376
uterus, histogenesis of, (81) 91
uterus, roentgenotherapy in menorrhagia and, (83) 179
uterus, roentgenotherapy of, metrorrhagias and, (53) 1528
MYOMECTOMY during pregnancy, (19) 1798
MYOPIA, curvature and index, (33) 939
MYOSITIS, ossifying, circumscribed, (87) 1623
ossifying progressive multiplex, early development of, (7) 1111
ossifying, traumatic circumscribed, (66) 783
MYOTONIA, congenital, (19) 699, 1330—E
MYSTERY the foundation of fraud in medicine, 444—E
MYXEDEMA: See also Acromegaly; Cretinism; Goiter, Exophthalmic; Infantilism
MYXEDEMA, cerebellar symptoms of, (94) 1803
Friedreich's ataxia and dwarf growth, familial occurrence of, (57) 701
iodin in, (69) 283
partial, *986
simulating nephritis, (45) 1795
MYXOMA in heart of ox, (90) 188
MYXORRHEA coli, myxorrhea membranacea and myxorrhea colica, surgical, (143) 180

N

NAGELSCHMIDT modification of Kromayer quartz lamp in diseases of hair and scalp, (105) 1796
NAILS as index in diagnosis, (115) 1360
finger and toe, deformity of, developing at age of seventeen, (135) 626
horn production in, process of, (68) 1279
ringworm of scalp, trunk and, of feebleminded girl of twelve, (140) 868
white spots on, 930
NARCOSIS, nature of, (70) 1689
NASOPHARYNGITIS, protracted fever in infants due to, (102) 1538
NASOPHARYNGOSCOPE, Holmes' protective shield for, (111) 1109
posterior nasal operation by means of, (78) 1274
NASOPHARYNX, fibromyxoma of, extensive, (38) 1273
fibrosarcoma, (63) 2019
polypus, (21) 1257
sarcoma, (5) 778, (107) 1616, (63) 2019
NATIONAL Academy of Sciences, proceedings of, a new journal, 597—E
Association for Study and Prevention of Tuberculosis meeting, 1858
Association for Study of Epilepsy, meeting of, 1337
Board of Medical Examiners, *2113
Committee for Mental Hygiene meets, 754
Guard, sanitary service in, evolution of, and defects in administration, (91) 469
NAUHEIM BATHS: See Baths, Nauheim
NAVY medical corps, work of, (46) 1456
United States: See United States Navy
prophylactic packet for venereal diseases in, 2007—C
NEAL'S Olivine, 1346—P
NEARTHROSIS or arthroplasty, (1) 692
NEBRASKA medical news, 751, 1432, 1772, 1856
state board November report, 1267
NECK, injury of vagus nerve in, (41) 1534
operations on base of skull and, arresting circulation in lateral sinus in, (46) 2024
pain in, and paranasal sinuses, (19) 938
tumors, differential diagnosis and treatment, (16) 774
NECROPSY as public service, *1560
tray, paper inset, *1579
work in field, (126) 1692
NECROSIS, bone, due to syphilis and tuberculosis, *211
femur, osteomyelitis with spontaneous fracture and, high amputation in, (41) 1614
influence of diet on, caused by liver and kidney poisons, chloroform, phosphorus and alcohol, (31, 32) 369
kidney in eclampsia, (27) 89
kidney, in pregnancy, symmetric cortical, (31) 1034
liver, chloroform, experimental, (50) 1451
pancreas, acute, (64) 91, (131) 94
skin, multiple patches of, after measles, (88) 1117
NEEDLE and cannula for blood transfusion and intravenous injections, (95) 1193
in tissues located by magnetism, (49) 940
NEGRO as problem in public health charity, (14) 1450
health problem, (13) 1450
health problem in rural communities, (12) 1450
health problem in southern cities, (11) 1450, (56) 1452
hygienic conditions of, in south, practical remedial measures for improvement of, (15) 1450
in U. S., mortality statistics concerning, 1382—ab
keloid formation in, (22) 615
medical aspects of, (111) 543
syphilis among insane, (16) 1450
NEGRO, tuberculosis and, (82, 83) 1108, (58) 1452
tuberculosis, need of hospital facilities for, (59) 1452
tuberculosis work in Atlanta, (57) 1452
NEIGHBORHOOD education in New York, 1664—E
NEOHORMONAL and hormonal, clinical and experimental study of, (70) 375
NEOPLASMS: See Tumors
NEOSALVARSAN and mercury in unilateral luetic palsy of abducens, (144) 620
and salvarsan in current practice, (85) 188
and salvarsan in pernicious anemia, (11) 1195
and salvarsan in syphilis, 360—C
and salvarsan in tuberculosis, experiments with, (145) 276
in syphilis, subdural injections of, *199
intraspinal injection of, arrest of respiration after, (61) 1278
intraspinal injection of, patient's spinal fluid as vehicle, technic and demonstration, (39) 1451
intravenous injection of concentrated solution of, (133) 379, (117) 705
intravenous injection of, prevention of inflammation from leakage during, *1316
in ulcer of vulva, rodent chronic, (74) 1805
NEOSALVARSANIZED serum, technic for preparation of, and intraspinal injection (38) 1451
NEPHRECTOMY, hemorrhage after, prevention of, (75) 375
procedures following, *953
NEPHRITIS, (50) 541, (91) 2020
acid excretion in, factors of, (12) 2096
acute, experimental, effect of theobromin sodium salicylate in, measured by excretion of phenolsulphonephthalein, (29) 273
acute, prognosis and treatment, (48) 1107
acute, uremic convulsions in, cured by opening vein in foot, (128) 94
albuminuria without, (102) 285
alkali retention in, (13) 2096
blood pressure in, (147) 552
chronic, (85) 1529
chronic aseptic, surgical treatment, (124) 706
chronic interstitial, (113) 942
chronic interstitial, with double hydrothorax, 1101—ab
chronic, nitrogenous diets in, (41) 939
chronic painful, with normal urine, (100) 1951
chronic parenchymatous, with myocarditis, (123) 697
chronic, phenolsulphonephthalein test in, *1885
chronic, treatment of, (114) 942
chronic, uranium, histogenesis of, with reference to epithelial regeneration, (65) 1795
chronic, with hypertension, dilatation of arch of aorta with, (5) 1449
double detachment of retina as sequence to, *334
experimental, reliability of dogs as subjects for, (79) 84
experimental tartrate, functional tests in, (20) 938
experimental tartrate, in rabbit, synthesis of hippuric acid in, (75) 695
experimental, unilateral, acute, kidney function in, (47) 939
experimental uranium, nitrogen metabolism and non-protein nitrogen of blood in, (30) 272
experimental uranium, retention and excretion of amylase and non-protein nitrogen retention in, (23) 1612
influence of diet on, due to potassium chromate, uranium nitrate or chloroform, (32) 369
mercury, (14) 2017
myxedema simulating, (45) 1795
newer experimental medicine exemplified in study of, 344—E
non-protein nitrogenous compounds of blood in, with reference to creatinin and uric acid, (46) 1358
syphilitic, (2) 614
NEPHRITIS, treatment of, (90) 696
urinary protein of, 2140—E
urine in, origin of proteins in, (13) 2017
NEPHROLITHIASIS, (135) 1797
NEPHROPEXY, deductions based on study of case records, (132) 180
NERVE, auditory, involvement of, in syphilis of central nervous system, *1471
auditory, tumor involving, removal of, through petrous bone, (122) 1368
block, public health and tuberculosis, (136) 276
blocking, (112) 859
blocking for normal labor, (94) 1281
blocking, local anesthesia with reference to, (111) 1274
blocking vs. artery blocking in prevention of shock, (134) 1944
cancer and involvement of, 1167—E
cardiac inhibitory, relation of nodal tissue to chronotropic influence of, (13) 1794
chorda tympani, threshold stimulus of, and salivary secretion and vasodilation, (5) 855
concussion due to bullet and shell wounds, (5) 544
electric stimulation of, intermittent, over prolonged periods, (79) 947
electric tests in injured, (35) 1277
embedded in cicatricial tissue, (52) 1036
end bulbs in papillae of skin, (85) 376
extracardiac, action of, on automatically beating ventricle, (84) 784
gunshot wounds of, in limbs, clinical and anatomic conditions in, (41) 1278
iliohypogastric, preservation of, in operation for inguinal hernia, (36) 1030
inadvisability of wrapping in fascia flap, (99) 1623
injuries due to bone abnormalities, (115) 276
irritable cells and tissues in, conditions of conduction of excitation in, (25) 1794
median and ulnar, neuroplasty of, (80) 776
median, painful, injury of, (18) 1532
median, wounds of, pain after, (27) 1456
operations on, 100 cases, (51) 1197
optic, atrophy of, following methyl alcohol poisoning, (62) 83
optic, bilateral atrophy of, after fracture at base of skull, (109) 1538
optic, decompression operations in diseases of, (33) 616
optic, total coloboma of entrances, (25) 82
optic, vascular lesions of brain and, changes in visual fields result of, *1549
peripheral and radicular innervation of integument, (39) 1881
peripheral, injections of solutions of alcohol into, *1892
peripheral, regeneration of, and histogenesis of neuroma, 441—E
peripheral, wounds of, in war, (64) 1278, (68) 1366, (61) 1456, (68) 1689, (89) 2026, (103) 2027, (43) 2103, (20) 2171
peripheral, wounds of, in war, operative treatment, (33) 474, (46) 1800, (78) 2025
peripheral, wounds of, treatment, (28) 2101
perivascular, stretching and severing in various painful symptoms of arterial origin and trophic disturbances, (71, 72) 375
phrenic, influence of resection of, on experimental lung tuberculosis, (63) 548
radial, access to, (42) 862
radial, paralysis, after fracture of humerus, operative treatment, (116) 626
radial, paralysis of, splint in, (25) 2171
regeneration of, special electric reaction during, (19) 1532
Root, Spinal Section of: See Rhizotomy
sciatic, resected and sutured, restoration of functions of, (102) 2027
sciatic, resection of, eosinophilia consecutive to, (58) 1198
NERVE, sciatic, traumatic interruption of, *1240
sensory, relation of, to inflammation, (48) 617
supply of heart, intramural, (67) 702
suture of, (44) 781, (92) 865, (77) 1622
sympathetic cervical, threshold stimulus of, in relation to vasodilatation, vasoconstriction and salivary secretion, (19) 1794
taste, crossing of, (69) 1279
tissue, indirect fractures and injury to, in war, (80) 375
transplantation of muscle tissues and, and experimental plastic operations, (72) 946
trifacial, blocking of, for removal of teeth, abscess of brain after, (97) 1690
trunks, electrization of, direct, results of, (25) 1112
trunks of limbs, surgical intervention in lesions of, by military projectiles, 68
tumors, need not submit to operation for, damages recoverable, 1786—MI
ulnar, trouble, due to tension from scar, (16) 1357
vagus and glossopharyngeal, paralysis, progressive, with ocular ptosis, (72) 1274
vagus, division of pulmonary branches of, late effect of, on gaseous metabolism, gas exchange and respiratory metabolism, (29) 1794
vagus, effect of homotropin on, (76) 1193
vagus, gastric, vomiting evoked by stimulation of, heart inhibition during, (17) 1794
vagus, hypoglossal and sympathetic, division of, by bullet, with formation of arteriovenous aneurysm of carotid, (18) 2100
vagus, in neck, injury of, (41) 1534
vagus, renal secretory fibers in, (28) 368
vasomotor, of duodenum, (23) 694
vasomotor, of portal vein, (7) 855
vasomotor, presence of, in portal vein, vasomotor reactions of liver with reference to, (74) 1942
vidian and 3d, 4th, 5th, 6th anatomic and clinical relations of sphenoid sinus to cavernous sinus and, (27) 1273
wounds, (47) 474, (37) 862, (48) 945, (46) 1277, (52) 1365, (33) 1618
wounds, curve of reaction of degeneration in estimation of injury and prognosis in, (34) 1800
wounds, electric tests and vital staining in examining, (50) 1197
wounds, electric treatment for, improvised apparatus for, (50) 1036
wounds in war, calf's artery as protecting sheath, (85) 1199
wounds in war, treatment of, (27) 1112, (70) 1115, (52) 1198
NERVOUS and mental diseases among soldiers, 259, (81) 549, 678, 1340, (56) 1365
and mental diseases associated with pellagra, (10) 539
and mental diseases, pyorrhea in etiology of, (71) 941
and mental diseases, recent work on, (37) 1196
and mental disturbances, postoperative, (8) 1793
and mental shock, (4) 2022
and mental symptoms of heart disease, *652
constitution, epileptic type of, (77) 1032
diseases among Jews, (68) 1615
diseases due to syphilis, treatment of, (96) 1280
diseases, 5,000 dispensary cases, (132) 94
diseases, marriage for women with, (77) 624
diseases, serodiagnosis of, Abderhalden, (131) 1039, (41) 1451
disturbances, constipation in, (142) 1879
disturbances, functional, among soldiers, 2001
disturbances in children, (38) 184
patient, (42) 1876
symptoms and vagotony in the healthy, (61) 1536
system and pigment content of skin, (65) 782

NERVOUS system and war, (71) 1949
system, autonomic or vegetative, (57) 274
system, central, and modern syphilis therapy from biological point of view, (93) 696
system, central, drugs which act on, 242
system, central, early involvement in syphilis, (88) 1032
system, central, in syphilis, (46) 1192
system, central, regeneration of fibers of, 746—E
system, central, syphilis in primary stage with involvement of, (85) 469
system, central, syphilis of, cerebrospinal fluid in diagnosis of, (104) 543
system, central, syphilis of, intraspinal treatment of, (90) 1193
system, central, syphilis of, involvement of eighth nerve in, *1471
system, central, syphilis of, salvarsanized serum in, 45 cases, (119) 1033
system, involvement of, in primary stage of syphilis, *979
system, peripheral and central, effect of Bruce's micrococcus melitensis and its toxins on, (50) 90
system, stomach motility and condition of, 749—E
system, structure and function in, relation of, 1935—ab
system, sympathetic, and gastroenteric functions, (81) 618
system, sympathetic, tumors of, suprarenals and, (166) 628
system, syphilis affecting, (81) 1032, (83) 2019
system, syphilis of, early recognition of, (118) 1033
system, syphilis of, early, spinal fluid in, *1465
system, syphilis of, intrameningeal treatment of, (111) 1685
system, syphilis of, intraspinal injections for, Swift-Ellis and modified Ravaut, *1563
system, syphilis of, new test of blood serum and cerebrospinal fluid in, (69) 857
system, syphilis of, treatment of, and Wassermann reaction, *975
system, syphilis of, treatment, recent methods in, 691—ab
system, vegetative, and abdominal disease, (80) 1622
system, vegetative, disturbances in, drug test of, (59) 782
system, vegetative, functional disturbances in female genitals and, (99) 377
system, wounds of, (95) 92, (66) 549, (91) 1950
NERVOUSNESS, antecedents of high blood pressure and, (115) 1879
NEURALGIA, blocking the gasserian ganglion for, (94) 704
pathogenesis of, in relation to inflammation, toxicosis and neurosis, (81) 179
treatment of, (106) 942
trifacial, complicated by facial palsy, resection of gasserian ganglion for, (81) 469
trifacial, deep injections of alcohol in, (45) 616, (130) 1275
trifacial, from nasal and accessory sinus disease, (115) 1274
trifacial, treatment 691—ab
vaccine therapy of neuritis and, (43) 184
NEURASTHENIA among garment workers, (57) 1528
and fraudulent cases, (34) 1945
splanchnic, treatment, (84) 1529
traumatic hysteria and, simulation and indemnities, (153) 552
traumatic, without physical injury, 678
NEURILLA, 1093—P
NEURITIS, (51) 371
acute multiple, hysteric astasia-abasia in, (79) 275
arthritic, (156) 1879
lead, from cosmetics, *1573
multiple, from arsenic paste, (139) 2021
multiple, with or after typhoid, (7) 1794
optic, (66) 1452
NEURITIS, optic, bilateral, due to sphenoidal sinusitis, (12) 620
optic, monocular, 2 cases, (62) 1528
optic, with whooping cough, (120) 1943
sciatic, (89) 1943
vaccine therapy of neuralgia and, (43) 184
NEUROFIBROMA, painful subcutaneous (26) 1450
NEUROFIBROMATOSIS, central and peripheral, 2013—ab
NEUROLOGISTS, expert testimony by alienists and, (5) 937
NEUROLOGY and arteriosclerosis, (126) 1879
of acute anterior poliomyelitis, (65) 941
teaching of psychiatry and, in Indiana, (48) 178
war, (39) 280
year's progress in, (56) 695
NEUROMA, histogenesis of, and regeneration of peripheral nerves, 441—E
NEUROMUSCULAR atrophy, progressive, 3 cases, (27) 1191
NEUROPLASTY of median and ulnar nerves, (80) 776
NEUROSINE, 165—P
NEUROSIS and war, 66
chronic infections and, (73) 2099
functional defects in thyroid and, (40) 1941
nasal ganglion, symptoms and treatment, (58) 1685
pathogenesis of neuralgia in relation to inflammation, toxicosis and, (81) 179
psychopathology of, (89) 1529, (82) 1615
psychoses and, related to syphilis, (60) 1685
surgery of cranial nerves for headache and, (107) 1685
tic, (91) 618
traumatic, (83) 476, (153) 552, (140) 626, (27) 1533
traumatic, generated by physician's examination, (88) 1623
vagotonic, (69) 1876
NEUTROPHIL blood picture of Arneth in children living in Tropical Queensland, changes in, (13) 372
leukocytes, nuclear variations in, in West Africa, (23) 1945
NEVADA medical news, 158
state board May report, 2160
state board November report, 668
NEW HAMPSHIRE medical news, 1335, 1432
state board December report, 931
NEW JERSEY medical news, 673, 1006, 1254, 1433
medical practice act, important changes in, 2087
state board October report, 687
NEW MEXICO medical news, 918, 1168
state board January report, 1677
state board October report, 611
NEW YORK, Bureau of Clinical Information, 1095—C
City Department of Health plan of neighborhood education, 1664—E
City to protect public against nostrum evil, 262—P
coroner reform in, 157—E
Home Hospital, an experiment, 75—ab
medical news, 63, 158, 255, 351, 446, 520, 599, 673, 752, 839, 918, 1006, 1084, 1169, 1254, 1335, 1433, 1508, 1591, 1667, 1772, 1856, 1923, 1999, 2077
new sanitary code for, 837—E
state board September report, 1097
states reciprocating with, 361
Tribune's campaign against fraudulent advertising, 61—E, 262—P
NEWSPAPER rejects all patent medicine advertisements, 1866—P
reports of meetings of medical societies, 1448—ab
NICHROME substitute for platinum wire in bacteriologic inoculators, *1069
NICOTIN and tobacco, direct action of, on motor functioning and tonicity of intestines, (120) 378
NIGHT blindness among soldiers, (67) 1458
terrors, (136) 1797
terrors in children, cause and cure, (18) 540
NIGHTINGALE, Florence, statue of, 841
NIGHTMARE, analysis of, (67) 1942
NILE SORE, 1603
NINHYDRIN reaction, limitations of, 1332—E
NITRITES, *1758
NITROBENZOL poisoning in attempts to exterminate lice, 6 cases, (117) 1691
NITROGEN, action of, on artificial pneumothorax, (125) 378
and phosphorus in butter-fat, (17) 2096
coefficient, noncoagulable, of blood serum in pregnancy and toxemias of pregnancy, significance of, (7) 1526
colloidal, of urine, in diagnosis of cancer, (123) 626
Folin-Farmer method for colorimetric determination of, (73) 695, (28) 2096
Kjeldahl-Folin-Farmer method of determination of, (15) 2096
metabolism and manganese nucleate, experimental research on, (100) 1117
metabolism and non-protein nitrogen in blood in experimental uranium nephritis, (30) 272
metabolism in dermatoses, (21) 699
metabolism in rabbits, effect of anaphylaxis on, (48) 90
nonprotein, and urea of blood, and phenolsulphonephthalein excretion in infants and children, 2034—ab
nonprotein, in blood, estimation of, (14) 2096
nonprotein, retention and retention and excretion of amylase in experimental uranium nephritis, (23) 1612
partition and acidosis in pregnancy, (2) 698
residual, in blood as test for kidney functioning, (66) 1536, (81) 1622
salt and electrolytes in urine, simplest methods of examining for, (94) 625
urinary and sulphur partition, study of, in rheumatoid arthritis, treated with intravenous injections of radium salts, (9) 1793
NITROGENOUS bodies in blood of children, (29) 781
diets in chronic nephritis, (41) 939
non-protein, compounds of blood in nephritis, with reference to creatinin and uric acid, (46) 1358
NITROUS OXID, analysis of, for physiologic work, (26) 1795
Anesthesia: See Anesthesia, Nitrous-Oxid
oxygen anoci-association anesthesia, (52) 1795
NOISELESSNESS, (19) 1196
NOMENCLATURE of drugs, 1853—E
NONALCOHOLIC drinks from standpoint of public health, (76) 1949
NORTH CAROLINA medical news, 159, 256, 600, 673, 839, 1007, 1085, 1169, 1254, 1336, 1509, 1773, 1923, 2077
state board June report, 73
NORTH DAKOTA medical news, 351, 839, 918, 1592, 1857
state board January report, 1604
NOSE, anatomy of, with reference to reflexes and constitutional diseases, (118) 1110
artificial, improved technic for making, (55) 945
breathing and lung tuberculosis, (147) 2029
cauterization of mucous membranes and, protest, (14) 272
cocaina, congenital bony obstruction of right, (62) 2019
collapse of alae nasi, etiology and treatment, (76) 1274
deformity, depressed, from submucous operation, 2 cases, (104) 1878
deformity due to syphilis, autotransplantation of bone for, (44) 1795
development, dynamics of, and resection of septum, (30) 1273
diphtheria, primary, (97) 275
diseases of, injection of sphenopalatine ganglion in, (60) 1795
diseases of throat and, in general practice, (134) 1879
dressing forceps, *1316
NOSE, economics of eye, ear, throat and, (156) 1944
eye affections and, (35) 1273
focal infection of throat, ear and, cause of general infection, (109) 1943
ganglion neurosis, symptoms and treatment, (58) 1685
headache with disorders of, (24) 1196
Hemorrhage: see Epistaxis
histologic pathology of, (32) 1273
infections of pharynx and, in relation to eye and ear, (75) 469
infections of throat, accessory sinuses and, (124) 1453
inflammation of accessory sinuses complicating scarlet fever, (71) 91
inflammatory affections of accessory sinuses and mucosa of, in children, (30) 1358
kaolin to remove bacteria of throat and, *1985
obstruction in children, (88) 858
obstruction of throat and, (120) 778
operations on pharynx and, emetin in hemorrhage following, (63) 468
operations on throat and, in chronic poisoning of heart, lungs and kidneys, results of, (85) 2099
pernasal operation for frontal sinus suppuration, (3) 1879
plastic operation for dislocated cartilage of, (77) 1274
posterior operation by means of nasopharyngoscope, (78) 1274
restoration of, (63) 1036
restoration of, Italian method, (61) 1036
Roentgen-ray prevention of diseases of, (107) 1109
sarcoma of nasopharynx and, (5) 778
scopolamin in operations on throat and, (82) 1274, (71) 1876
septum, correction of, methods and devices in, (114) 1274
septum, normal, and pathology of deflections, (87) 1529
septum, parenchymatous glossitis following submucous resection of, (64) 2019
septum, perforation of, (86) 947
septum, perforation of, in narcotic habitues, (112) 1109
septum, submucous resection of, (60) 541, (57) 1192, (123) 1943
septum, submucous resection of, for hemorrhage (44) 616
sinuses, accessory, and diseases of middle ear, diagnosis of intracranial complications in, (35) 467, (70) 1108
sinuses accessory, aspergillosis of, (22) 1687
sinuses, accessory, conservative treatment of suppuration of, (58) 541
sinuses, accessory, disease of, new postoperative treatment, (87) 1360
sinuses, accessory, infection and general disease, (113) 1685
sinuses, accessory, latent empyemata of, (30) 943
sinuses, accessory, roentgenoscopy of, (138) 1879, (2) 2022
sinuses, accessory, throat, ear, orbit and intracranial complications in, (27) 857
sinuses in infants, disease of, (51) 1113
sinuses, wounds of, in war, (43) 1881
surgery of ear, throat and, reduction of preventable diseases in, (126) 543
surgery of throat and, pituitary extract in controlling hemorrhage in, *301
teeth as primary factor in diseases of ear, throat and, (28) 857
throat and ear conditions, (121) 697
trifacial neuralgia from nasal and accessory sinus disease, (115) 1274
tuberculosis of, (89) 618
tumors of throat and, inoperable, diathermy in, (21) 944
tumors of throat and, inoperable, radium in, (22) 944
wounds of ear and throat, (47) 1197

V. 19

NOSEMA ebombi, morphology, biology and economic importance of, (17) 372
NOSTRUM: See also Patent Medicines; Proprietary Medicines, Quackery
NOSTRUM evil, 836—E, (70) 1193
evil, New York City to protect public against, 262—P
misleading names of, 2074—E
testimonials for Winox, method of obtaining, 1088
war and, 841
NOTARY fee in applications for license under Harrison law on habit-forming drugs, 2157—C
NOURISHMENT, standards for estimation of condition of, (66) 2025
NOVATOPHAN and atophan, action of, on gout and iritis, (39) 939
NOVOCAIN and suprarenin infiltration-conduction anesthesia in inguinal hernia, (72) 2019
anesthesia in 43 suprapubic prostatectomies, (34) 2022
intraspinal injection of, death after, (102) 866
NUCLEAR DIGESTION and uric acid excretion in occlusion of pancreatic duct, (8) 2017
NUCLEIN SOLUTION in dementia praecox, (Lundvall's formula) 5 cases, (180) 87
NUCLEOTIDES, simpler, from yeast nucleic acid, (71) 695
NURSES for war work, 755
negligence of, liability of sanatorium for, 1786—MI
on private duty, experiences of, (118) 778
partly trained, for army, 1339
social service, (67) 1193
suitable, for district work, instruction and choice of, (122) 1033
trained, (127) 1692
trained only, accepted for German base hospitals, 1925
training schools for, are they educative, (123) 1110
vaccination of, 1589—ab
visiting, of Baltimore, (64) 1876
war, relief fund, 1339
NURSING, aseptic, (29) 1684
community, 429—ab
in Henry Phipps psychiatric clinic, (65) 1876
in war, (88) 625
public health, and public health campaign, (17) 1450
NUTRITION and diseases, effect of, on growth of brain in young children, (78) 284
and growth, *1539
artificial, indications for, (12) 937
disturbances of, in infants, (23) 368
in psychoses, *1977
infant metabolism and, studies on, (7) 1272
with purified food substances, (86) 1877
NYSTAGMUS and vertigo, 594—E
labyrinthine, mechanism of, and modifications by lesions in cerebellum and cerebrum, (5) 538

O

OATS for human food, 843
OBESITY and malnutrition, (31) 1941
and starvation with reference to acidosis, (26) 2096
basal metabolism in hypophysis cerebri disease and, studies on, (53) 1451
constitutional, upset in fluid and salt balance in, (46) 374
ergotherapy in, by Kellogg-Bergonie method, (96) 1796
flap from abdominal wall shares in general, (88) 2106
genital disturbances and hypophysis cerebri disease, (130) 1033
treatment, (123) 951
OBSTETRICS: See also Labor; Presentation.
OBSTETRICS, (135,137) 1275
abnormal cases, management of, (106) 275
antigonococcus vaccine and serotherapy in gynecology and, (31) 781
bed, practical, (142) 1361
better, (57) 1031
clinical, (133) 1275
clinics, German, notes from, (35) 541
country doctor and, (134) 1275
early day cases, (82) 858
OBSTETRICS, gynecologic surgery and bad, 79—ab, (11) 1272
hemorrhage, blood pressure in prognosis with severe, (16) 1532
history of, (64) 274
hospitals for maternity cases, (12) 1272
in slums, (101) 371
mistakes in, (136) 1275
practice, early experiences in, (114) 372
practice, minor points in, (44) 374
problems in, (56) 1942
progress in, (19) 368
protective ferments in gynecology and, (103) 1691
teaching, 79—ab, (10) 1272
OCCUPATION for convalescents, pheasant raising as, (60) 274
OCCUPATIONAL DISEASES: See Industrial Diseases
OCULOMOTOR paralysis from helminths, 2 cases, (44) 1618
paralysis in Cuba, (87) 1803
ODONTOMAS, cystic, *34
ODONTOME, (110) 1281
ODORS at City refuse disposal works, prevention of, (21) 1875
OFFICE screen, convenient, *1316
OFFICERS, medical and line, distinctions between, 1670
OHIO Bureau of Juvenile Research, program of, aims and possibilities, (126) 619
medical news, 64, 521, 673, 752, 839, 1085, 1234, 1592, 1774
public health federation, (80) 1108, (68) 1876
reciprocity report, 764, 850
state board, December report, 1020
OIDIUM brasiliense, mycosis of lungs due to, (126) 379
OIL and ether colonic anesthesia, (102) 2020
as evacuant, *1910
camphorated, in laparotomy 169
cod liver, nutrient value of cod liver oil cordials and, *638
cod liver, oilless, 667—E
impregnated drainage tubing, (120) 2021
medicated, intratracheal injections of in gangrene of lung, (96) 188
of chenopodium, toxicity of, (8) 1189
olive and cottonseed, 265
volatile, *1242
OILED silk for burns and skin wounds, (25) 1456
OINTMENTS, therapeutic value and abuse, (13) 88
OKLAHOMA medical news, 351, 840, 1509
state board January report, 1350
state board October report, 687
State Medical Association, (88) 2020
OLD AGE: See Age, Old
OLECRANON, trephining, to drain elbow, (65) 1802
OLIVE and cottonseed oils, 265
OLIVINE, Neal's, 1346—P
OLSHAUSEN, Prof., death of, 922
OMENTUM, chronic inflammation of, stomach disturbances due to, (103) 1804
diaphragmatic hernia of stomach and, (106) 1109
tumors, inflammation, (69) 946
ONCHOCERCA gibsoni, migration of larva of, through capsule of worm nodule, (16) 372
ONYCHIA, ionic medication in, (3) 2022
OOPHORECTOMY: See Ovariotomy
OPERA glass in examination of roentgenogram, 2007—C
OPERATIONS at home, when justifiable, (12) 1029
in diabetes, preparation for, *1130
infections in, aseptic technic, *1369
in field, technic for, (63) 186
nervous and mental disturbances after, (8) 1793
quinin salts after, *146
right to perform, to remove physical disability of wounded soldiers, (47) 1882
OPHTHALMIA, gonorrheal treatment of, (71) 1108
neonatorum, (76) 2019
neonatorum, prevention and cure, (125) 1033
neonatorum, prevention of blindness from, draft of bill for, 770—ab
OPHTHALMIA, suppurative, prevention and treatment, (95) 469
sympathetic, and idiopathic iridocyclitis, (34) 616
sympathetic, from wounds in war, (78) 864, (78) 1622, (54) 1801
sympathetic, phases of, (110) 1878
sympathetic, therapeutics of, (135) 1194
OPHTHALMOLOGIST, arteriosclerosis as seen by, (127) 1879
notes of, prisoner of war in Germany, (45) 945
OPHTHALMOLOGY and general practice, (88) 1615
arteriosclerosis and, (126) 1879
borderland topics in otolaryngology and, (140) 697, (24) 2018
importance of, for public health service, (106) 1367
in United States and endowed school of refraction, (71) 84
original research in otolaryngology and, on Pacific coast, (124) 697
otology and rhinolaryngology, (58) 1942
recent progress in, (58) 695, (121) 942, (36) 1945
salvarsan in, (111) 469
specialists in otolaryngology and, preparation of, 854—ab
Wassermann reaction in, (2) 1033
OPHTHALMOPLEGIA interna, result of lead poisoning, (29) 616
OPHTHALMOSCOPE, disease of small blood vessels as studied with, (22) 1684
OPIUM, 763
alkaloids, action of, on coronary artery and coronary circulation, *1489
and bromid treatment of epilepsy according to Flechsig, (111) 2028
and its alkaloids, (18) 472
history of, and its preparations and alkaloids, *477
price of, in Germany, 258
OPTIC nerve atrophy following methyl alcohol poisoning, (62) 83
nerve, bilateral atrophy of, after fracture at base of skull, (109) 1538
nerve, decompression operations in diseases of, (33) 616
nerve entrances, total coloboma of, (25) 82
nerve, vascular lesions of brain and, changes in visual fields result of, *1549
neuritis, bilateral, due to sphenoidal sinusitis, (12) 620
OPTIC THALAMUS, lesion in, syndrome from, (112) 866
OPTOCIN in pneumonia, (62) 1948
OPTOMETRY bill vetoed, Pennsylvania, 1859
ORBIT, access to deeper, (106) 2021
blood cyst of suboperiosteal, simulating osteosarcoma, (150) 1944
cellulitis of, removal of eyes in, (15) 1195
discrete lymphoid infiltration of, (31) 1795
nose, throat, ear and intracranial complications in accessory sinus diseases, (27) 857
wounds of eye and, in war, (98) 1280
wounds of, indications for operative treatment of, (27) 699
ORCHITIS and epididymitis, (97) 1032
typhoid complicated by, 80—ab
OREGON, educational advantages in Tennessee and, 1430—E
medical news, 600, 910, 1085, 1169
state board January report, 1677
state board July report, 361
ORGAN extracts, active principles of, shown in kymograph tracings, (1) 2167
ORGANIC regulation, Haldane on delicacy of, 249—E
ORGANISMS, quantity of, in suspension, method of estimating, (28) 621
ORGANOTHERAPY: See also Extracts of Organs
ORGANOTHERAPY, limitations of, (42) 90
pancreatic, and ketogenesis, (6) 539
ORIENTAL SORE and naso-oral leishmaniasis originating in Anglo-Egyptian Sudan, (8) 372
OROYA FEVER, *806, *965
ORTHOFORM dermatitis, (139) 2021
ORTHOPEDIC apparatus, universal, (33) 2102
appliances, improvised, (78, 85) 1690
cases, blood vessel conditions in, importance of, (14) 1611
clinic, scope and efficiency of, (2) 692
department of Innsbruck Surgical Clinic, new, (58) 1882
hospital and training school at Vienna, 841
institutions and care of wounded, 525
surgery, advances in, (55) 468, (57) 695, (77) 858
treatment of spasms, after wounds of head, (115) 950
treatment of wounded, (83) 1037
OS CALCIS: See Heel Bone
OSCILLOMETER, universal, (76) 1802
OSIRIS prize, 1928
OSKALOOSA Times rejects all advertisements of patent medicines, 1430—E, 1442—C
OSLER on England at war, 679, 1512, 2001
OSSIFICATION center, second, found in first metacarpal and metatarsal bones in prehistoric skeletons, (23) 1455
OSTEITIS fibrosa, (78) 469
fibrosa, frontal and adjacent bones, (102) 1803
oral, in relation to arthritis, (93) 1109
OSTEO-ARTHRITIS in tabes dorsalis, (96) 371
OSTEO-ARTHROPATHY, secondary hypertrophic, and simple clubfingers, (9) 2017
vertebral, pathologic report of the case, (11) 81
OSTEOCHONDRITIS, femur, upper end, (3) 1611
fetal, (57) 1273
juvenile deforming, (77) 1199, (112) 1624
juvenile deforming, of hip joint, (63) 91
OSTEOCHONDROMATA, congenital multiple, (29) 1030
OSTEO-ENCHONDROMA of scapula, (54) 371
OSTEOGENESIS, experimental study of, (5) 81
OSTEOMALACIA, (102) 188, (118) 1282
epinephrin in, efficacy of, (92) 1367
puerperal, (136) 1693
tumor of parathyroid gland with, (109) 1624
OSTEOMYELITIS, acute, (104) 469
acute, early diagnosis of, *1293
acute suppurative, (111) 697
acute, surgical treatment of, (126) 942
diagnosis and treatment, (118) 469
proteus, experimental, failure of attempts to induce, (121) 378
ribs, case of, (103) 1118
spine, acute, after wound in war, (45) 1882
spine, primary acute and subacute purulent, (82) 1199
treatment, (102) 858
with necrosis of femur and spontaneous fracture, high amputation in, (41) 1614
OSTEOPATHY, (22) 1358
OSTEOPLASTY in modern military surgery, (104) 179
on limbs, with regard to behavior of epiphyses, (43) 1364
OSTEOSARCOMA: See also Bone Tumors
OSTEOSARCOMA, suboperiosteal blood cyst of orbit simulating, (150) 1944
OSTEOTOMY, suboperiosteal, of os calcis for pes calcaneus,((124) 858
OTACARIASIS in Bighorn, (55) 1615
OTITIS, acute, of infants, (51) 774
media, acute, (72) 275
media, chronic, purulent, discharging ear in, isolation and cultivation of tubercle bacillus from, (67) 1685
media, fulminating, with mastoiditis, and sigmoid sinus thrombosis, (86) 1032
media, suppurative acute, in infants and children, treatment of, (117) 1797
media, suppurative, metastatic complications of, (91) 371

OTOLARYNGOLOGY, borderland topics in ophthalmology and, (140) 697, (24) 2018
environmental, surgery of, (112) 85
modern ideas in, (51) 178
original research in ophthalmology and, on Pacific coast, (124) 697
rhinology and dentistry, interdependence of, (70) 84
specialist in ophthalmology and, preparation of, 854—ab
year's progress in, (59) 695
OTOLOGY, ophthalmology and rhinolaryngology, (58) 1942
retrospect of, (4) 1685, (33) 1687
OTORHINOLOGY, pathologic conditions in, and relation to medicine and surgery, (137) 778, (84) 1193
OTOSCLEROSIS, clinical aspect of, (24) 943
roentgenography of, (68) 1685
treatment of, (25) 943
OTOSCOPE as anterior urethroscope, (139) 620
OUABAIN, crystallized, 2067
quantitative reaction of heart to, influence of temperature and concentration on, (71) 1942
OUT-PATIENT DEPARTMENT: See Dispensary
OVARIECTOMY, fever after, (116) 378
OVARY as a factor in menstruation, 1246—E
cancer in child of eleven, *1577
chorioepithelioma of testicles and, (143) 2029
chronic disease of fallopian tubes and, conservative operative treatment of, (132) 2028
cyst, kidney cystadenoma mistaken for, (116) 1878
cysts, torsion of, (9) 466
echinococcus of, primary, (15) 1798
etiology of diseases of fallopian tubes and, (92) 2026
extract, isolating active substance from placenta and, (61) 1114
extract of testicle and, in impotency, (75) 1279
fibroid, solid, (114) 1194
fibromas, (45) 2023
hemorrhage, (41) 374
hemorrhage into, with severe dysmenorrhea, (24) 1034
implantation of testicle and, (95) 1274, (112) 1360
inflammation of fallopian tubes or, diathermy in, (91) 1200
inflammatory processes of fallopian tubes and, operative treatment of, (51) 1619
innervation of, (94) 376
left in situ after hysterectomy, fate of, 2014—ab
operations on, conditions affecting menstruation after, (103) 1281
papillary cystoma of, with ascites, 1102—ab
parathyroid and, relation between, (59) 1036
perithelioma of, and hard ovarian tumors, (100) 1538
resection of, (5) 177
sarcoma of, (64) 1273
sarcoma of, in child of three, (124) 1361
surgery of, conservative, (132,134) 2028
transplantation, (120) 470, *1823, 2014—ab
transplantation, case of implantation into uterus with resulting pregnancy, (23) 467
tumors in pregnancy, 270—ab, (134) 1110
OXALATES, citrates and tartrates, influence of, on isolated heart, (16) 694
OXALURIA, (73) 863
OXIDASE reaction in sections of tissues, (125) 1039
OXIDATION in egg of sea urchin, effect of weak and strong bases on rate of, (21) 2096
OXYGEN and carbon dioxid in blood in uremia, (75) 1884
for gas phlegmons, (51) 185, (65) 1535
importance of hypotonic medium for respiration of, by marine animals, (159) 380
injection of, as therapeutic measure, (5) 271
injection of, in tetanus, (20) 1617
OXYGEN, injection of, in wounds and gas gangrene, dosage and technic, (54) 2024
solubility of, in serum of limulus polyphemus L and solutions of pure limulus hemocyanin, (49) 467
OXYPATHOR fraud denied use of mails, 1600—P
OXYTOCICS, (81) 947
OYSTER beds, examination of, 1008
OZENA and distemper in dog, Perez bacillus, in relation to, (32) 944
paraffin injection for, 30 cases, (147) 868
OZONE deodorizes cancer, (59) 1456

P

PACHYMENINGITIS hemorrhagica interna, with positive Wassermann reaction, *1155
PAGET'S DISEASE OF BONES: See Osteitis Deformans
PAIN, abdominal diagnosis, with reference to, (137) 86
effects of weather on, 747—E
in peritoneum and intestines, (71) 476
perineorrhaphy and puerperal infection, (32) 857
significance of, (16) 177, (103) 942
PALATE, cleft, inherited harelip and, information wanted on, 1347—C
cleft of hard and soft, operations for, *301
cleft, operations, (136) 469, (135) 1944
cleft, operations on harelip and, principles governing ultimate results, (133) 469
cleft, operative treatment of, (132, 134) 469, (25) 1196, (31) 1276, (103) 1616
cleft, treatment of, (135) 469
controller of tongue and, during general anesthesia, *1757
endothelioma, soft, (106) 619
PALMS, hyperkeratotic eczema of soles of feet and, local treatment of, (29) 2018
PALPEBRINE, 167—P
PAMPINIFORM plexus, varicosities of, (46) 1795
PANAMA Canal, health conditions in, 1234—ab, 1605—ab
Canal laborers, ulcers of stomach and duodenum, gall bladder calculus and pancreatitis in, (24) 1273
Canal physicians to meet at San Francisco, 64
Canal, school children in, inspection of, 257
Pacific exposition, emergency hospital of, (75) 1529
Pacific exposition, hygiene and sanitation at, 1669
Pacific exposition, hygiene exhibits of, (76) 1529
Pacific exposition, medical greetings at, 1435, (77) 1529
Pacific exposition, open air school exhibit at, (64) 1193
Pacific exposition, sanitary equipment at, 1511
sarcosporidia in, (54) 1615
PAN-AMERICAN Congress to meet, 1171, 1716
PANCREAS, (17) 1112
achylia, functional, of stomach and, (120) 705
calculi in, (48) 547
complications after resection of stomach, (72) 623
cysts, (74) 1884
diseases of, (28) 1613
diseases of gallbladder and, direct examination of duodenal contents and bile in diagnosis of, (47) 280
diseases of liver, bileduct and, recent progress in, (123) 551
functional tests of liver and, literature on, 72
necrosis of, acute, (64) 91, (131) 94
pain in differential diagnosis of chronic diseases of (149) 2029
pathological anatomy of, in diabetes, (92) 85
secretion, defective, infantilism due to, (17) 2022
secretion in stomach, liver and, drugs that check or promote, (119) 1692
PANCREAS, secretion increases after splenectomy, (92) 1537
secretion, recent studies in, 1872—ab
secretion with abnormal stomach secretion, (124) 1039
stomach ulcer, perforated, involving, in diabetic, (107) 1118
surgery of, experiments on, (26) 1107
PANCREATIC and bile ducts, new growths involving, (6) 271
duct, occlusion of, nuclear digestion and uric acid excretion in, (8) 2017
PANCREATITIS, acute, (60) 1801
acute hemorrhagic, (4, 6) 471, (114) 859
acute, with pseudocyst, (32) 774
in Panama Canal laborers, (24) 1273
PANNUS, treatment of, (117) 1110
PANOPHTHALMIA during pneumonia, (105) 1878
PAPAVERINE, 1849
PA-PAY-ANS Bell, 264—P
PAPILLO-EDEMA, double, (66) 1452
PAPILLOMA of larynx, radium in, (39) 1273
uvula, (79) 1274
PARACHOLERA, vibrio kegallensis cast, isolated from cases of, (17) 1880
PARAFFIN, advantages of high melting point for histologic sections, (115) 1952
in general practice, (31) 1687
injection of, in ozena, 30 cases, (147) 868
liquid, clinical experience with, *808
liquid, emulsions of castor oil and, in chronic dyspepsia in children, (15) 943
liquid, in infants, (24) 1191
liquid, in wounds in war, (69) 1801
liquid, injection of, into abdomen to prevent adhesions, (119) 705
mixture with low melting point, (123) 706
PARAGAERTNER organism, epidemic simulating typhoid- caused by, (41) 2097
PARAGONIMUS, species of, and differentiation, (3) 1362
PARALYSIS, birth, (11) 1945
cerebral, uremic origin of, (31) 1196
deformity from, tendon fixation for, (24) 616
deltoid, arthrodesis of shoulder for, (134) 1202
diphtheric, and diphtheria antitoxin, (87) 1690
facial, in children, (37) 1613
facial, occurring in treatment of syphilis, (148) 87
facial, syphilitic, (154) 87
facial, trifacial neuralgia complicated by, resection of gasserian ganglion for, (81) 1869
family periodic, (31) 273
flaccid, and ocular symptoms with cerebellar tumor, (132) 1202
functional, of wounded, electrotherapy in, (52) 2024
general, acute alcoholic hallucinosis in, with herpes zoster following intraspinous injection of salvarsanized serum, (100) 1360
general, and syphilis, with report of pathologist of Napa State Hospital, (37) 1941
general, and tabes, (109) 1281
general, changes in cortex of brain with, (152) 627
general, colloidal gold test on spinal fluid in mental disease and, (81) 1529
general, lactin reaction in diagnosis of tabes and, (54) 700
general, of insane in married men, their wives and children, 100 cases, (30) 83
general, onset of, (57) 1876
general, salvarsanized serum in, (62) 1452
general, somatic characteristics of, (24) 1527
general, sterility in marriages in, *890
general, treatment of tabes and, present status of, (65) 1457
gunshot wounds of vertebral canal with complete, operative treatment, (44) 1035
hysteric, (111) 778
in children, diagnosis of, (87) 777
Infantile: See Poliomyelitis, Acute Anterior
Landry's histopathological findings in, 2013—ab
PARALYSIS, ocular, due to tabes dorsalis, pathology of, (83) 776
ocular, etiology and treatment, (168) 87
oculomotor, from helminths, (44) 1618
oculomotor, in Cuba, (87) 1803
oculomotor, of otitic origin, (20) 944
of respiration center after injection of neosalvarsan, (61) 1278
postoperative, of stomach and intestines, (71) 623
Pott's paraplegia with, for 5 years, recovery after treatment, (8) 1611
progressive, and tabes, present status of, (38) 2172
radial, after fracture of humerus, operative treatment, (116) 626
radial, splint in, (25) 2171
radial, treatment of, (71) 1115
spastic, cerebral, operative treatment, *482
spastic, of lower limbs, reflex phenomena in, physiologic significance of, (6) 943
spastic spinal, familial, (165) 866
spondylolisthesis with, bone-splint transplantation for, *24
syphilis, familial, and, *890
syphilitic, unilateral, of abducens, neosalvarsan and mercury in, (144) 620
tick bite cause of, (60) 178
traumatic bulbar, in child of five, (87) 703
traumatic, of both external recti, (26) 82
ungual phalanx of thumb from spontaneous rupture of extensor pollicis longus, *1138
vagus-glossopharyngeal progressive, with ocular ptosis, (72) 1274
vocal cords, functional, in soldiers, (76) 1536
PARAMETRIUM, distribution and significance of, (13) 1798
PARAMYOCLONUS and myoclonus, epileptic, (98) 1118
PARANEPHRITIC abscess, 35 cases, (58) 281
PARANOIA, (54) 541
and hypophysis disturbances, *658
PARAPHARYNX abscess as distinguished from peritonsillar and retropharyngeal abscess, 2093—ab
PARAPLASMA flavigenum, division forms of parasites in organs of guinea-pigs infected with, (33) 1024
PARAPLEGIA dolorosa terminated by aplastic anemia, (79) 469
Pott's, with complete paralysis for 5 years, recovery after treatment, (8) 1611
senile, (90) 619
transient, from shell explosions, (9) 183
PARASITES, blood, method of transmitting, (65) 1536
intestinal, incidence of, 1249—E
staining method for malaria blood smears and, combined, *2131
utilization of intermediate host of, for cultivation of parasite, 2174
PARASYPHILIS, (35) 178
PARATHYROID, (31) 546
and thyroid grafts, (25) 279
origin of tetany in children, pathogenesis of, (124) 378
ovaries and, relation between, (59) 1036
tetany, and calcium, 441—E
tetany, effect of acid administration on, (24) 2096
tumor, with osteomalacia, (109) 1624
PARATHYROIDECTOMY, tetany following, (134) 778
PARATYPHOID, abortive treatment of, (36) 546
and typhoid, (9) 1454
bacillus isolated from blood, (47) 2024
bacillus with severe jaundice in boy of five, (98) 1367
bacteria infections, (93) 865
bolus alba in, advantages of, (51) 475
diagnosis of, (39) 1618
epidemic, (137) 626
infection, pathologic anatomy of, (126) 1202
infection, vaccination in typhoid and, (40) 944
patients, danger of putting in same ward with typhoid patients, 2152
prophylaxis and treatment, among soldiers, (38) 546
PARENCHYMATOUS organs, hemorrhage in, tissue flaps to arrest, (115) 1201

PARENTS, love and hatred of children for, (109) 93
negligent care by, and insanitary condition of home of injured child, **767**—MI
PARESIS: See Paralysis, General
PARIS letter, **67**, **163**, **259**, **355**, **451**, **524**, **603**, **677**, **756**, **843**, **923**, **1010**, **1089**, **1173**, **1258**, **1340**, **1437**, **1514**, **1596**, **1671**, **1777**, **1861**, **1927**, **2002**, **2082**, **2151**
PARONYCHIA, (43) 1685
PAROTID GLAND fibroma, case of, ***1238**
inflammation of, in typhoid, **1089**
septic infection of, (37) 1273
tumors, radium in, **1611**—ab
PAROTITIS, **512**—T, (32) 1880
deafness following, (99) 942
differential leukocyte count in, (41) 944
epidemic, (46) **2103**
primary suppurative unilateral, in 3 infants, (135) 867
suppurative, following pneumonia, (3) 1944
unusual complications of, (34) **1618**
PARTHOGENESIS in vertebrates, research on, (153) 380
PARTURIENT canal, injury to, (77) 179
PARTURIENTS, self-infection of, (22) **1532**
PARTURITION: See Labor
PASTEUR, **481**—ab
bust of, at Academy of Medicine, **356**
Institute, damages for delay in delivery of dog's head to, **364**—MI
treatment in epilepsy, **4** cases, (138) 379
PASTEURIZATION, effect of, on cream line of milk, **2173**—ab
PATELLA, congenital absence of both, ***2062**
fracture of, (136) 942, (53) 2019
fracture of, exercising after, damaging for second injury from, **365**—MI
fracture of, method of retaining fragments in position, ***1752**
fracture of, symptoms and treatment, (98) **865**
suture of, with catgut, (109) **551**
PATENT MEDICINES: See also Nostrums; Proprietaries; Quackery
PATENT MEDICINES, abolishing secrecy and mystery in, **262**—P
advertisements of, Oskaloosa Times rejects all, **1430**—E, **1442**—C
advertisements of, rejected by Canton Daily News, **1866**—P
control of sale of, in New York, **263**—P
South Texas Medical Record will not advertise, **1866**—P
PATHOLOGY, clinical, recent work in, (39) 1946
year's progress in, (55) 695
PATHOMETRY, (7) 1453
PATIENT as show boy, reporting to Carlisle Medical Club, **269**—MI
mental attitude of, therapeutic importance of, (18) 1357
obligations of, to physician, from the code of ethics of American Medical Association, **1353**—ab
physician's directions to, (58) 618
relation of physician and, (95) 1685
surgical, uniform and numbered history cards for, on dismissal, (108) 551
PEACE, international, **675** movement, (91) 1796
PEACOCK'S bromides, **1177**—P
PEAT, medicated, for dressing wounds, (76) 702
PECTORALIS muscles, right, major and minor, congenital abscence of, ***508**
PEDIATRICS, year's progress in, (57) 695
PEDIATRISTS, relation of, to community, (26) 1191
Southern, reasons why they should organize, (98) 1685
PEEBLES Institute of Health, **455**—P
PELLAGRA, (15) 177, (135) 544, (36) 616, (56) 1192, (87) 1193, (47) 1614, (96) 1878, (89) 2020
autoserotherapy of, ***1566**
blood count in, (11) 538
case of, in New York, (30) 2018
commission's work, Spartanburg's appreciation of, (141) 276
dermatitis of, (45) 1685
etiology, (140) 276, (72) **542**
etiology and treatment, (188) **778**
Goldberger diet in, (174) 87
PELLAGRA in Antigua, (39) 621
in Bessarabia, **1917**—E
in children, (37) **1364**
in children in Montgomery, Ala., (117) 543
in Cincinnati General Hospital, (75) 371
in South Carolina, **1470**—ab
Italian research on, **1776**
literature on, **1932**
microscope in diagnosis of, (34) 694
nervous and mental disorders associated with, (10) **539**
organism causing, (147) **1194**
Roentgen-ray and latent, (41) 694
statistics of, in Spartanburg County, geographic distribution, and relation to race, age, sex and occupation, (9) 538
streptobacillus of, (150) 1694
sugar-cane products and, (118) **543**
symptomatology, etiology, pathology and treatment, (99) 1685, (75) 2099
theories and investigations concerning, (26) **1687**
trisodium citrate in, (119) **1879**
PELVIMETRY and cephalometry among Filipinas, (108) 1529, **1854**—E
PELVIS abscess following Fowler position in appendicitis, (61) **857**
contracted, abdominal cesarean section for, after rupture of membrane, (88) 1032
contracted, and hydrocephalus developing after birth, ***816**
contracted, at Innsbruck, (38) **374**
contracted outlet, permanent enlargement of, (92) 1360
contracted, second degree, treatment, (104) **859**
coxalgic, (18) **1798**
deformed by congenital dislocation of hip joint, labor with, (32) **1799**
diseases of female, with affections of urinary tract, (122) 1616
dynamics of female, evolution and architecture with respect to function, (1) **466**
electricity in diseases of, (74) 1796
fracture of spine and, (170) 87
funnel, dystocia due to, (35) 1192
gonorrheal infections, conservative surgery in, (138) 180
inflammation, (51) 617, (23) 1034
inflammation, acute, (**44**) **374**
inflammation in women, diagnosis in, (56) 1031
inflammation originating in fallopian tubes, operation in, **2091**—ab
measurements of Philippine women, (108) 1529, **1854**—E
surgery and venereal diseases, (4) 2016
tumors, inflammatory, cure of, by weak galvanic current, (93) 376
wounds of, extension in treatment of, (112) 1201
PEMPHIGUS, acute, complicating scarlet fever, (10) 1111
and unexplained edema in convalescence from scarlet fever, (11) **1112**
foliaceus of new-born infants, (81) 542
mouth and throat, (24) 272
vegetans, case of, (82) 476
Wassermann reaction in, positive, (95) **865**
PENCIL, indelible, injury from, 3 cases, (30) 279
PENIS, cancer, blunders in diagnosing, (49) 1619
cancer, operative treatment, (141) 180
fibrosclerosis, roentgenization in, 3 cases, (122) 469
PENNSYLVANIA medical news, **159**, **256**, **352**, **447**, **521**, **600**, **674**, **753**, **840**, **919**, **1007**, **1085**, **1169**, **1255**, **1336**, **1433**, **1509**, **1593**, **1668**, **1774**, **1857**, **1924**, **1999**, **2077**
state board December report, **765**
PENTOSES and hexoses, phenylosazones of, mutarotation of, (49) 1358
PENTOSURIA and lactosuria, diabetes mellitus complicated by, ***508**
PERCA globulin, (27) 2096
PERCUSSION and auscultation, (78) 1360
of skull, clinical value of, (43) 1192
PERCY cautery in cancer of uterus, (103) 2020
PEREIRA, Prof. Pacifico, of University of Bahia, **258**
PERICARDITIS, chronic kidney disease complicated by, (97) 188
PERICARDIUM, bullet removed from, recovery, (79) **864**
tumors, primary, (142) **2029**
PERICOLIC MEMBRANE: See Jackson's Membrane
PERINEORRHAPHY, puerperal infection and pain, (32) 857
PERINEPHRITIC abscess, (57) 1619
PERINEUM, lacerated, operations for, local anesthesia in, (76) 371
lacerations of, (67) 371, (9) **1617**
lateral tear of, Lateral repair of, (114) 1032
preservation and restoration of, plea for, (77) 1685
repair of, (121) 1616
PERIOSTEUM and bone vitality, (20) 368
osteogenic power of, (32) **1191**
PERIPHERAL and radicular innervation of integument, (39) 1881
nerves, injections of solutions of alcohol into, ***1892**
nerves, regeneration of, and histogenesis of neuroma, **441**—E
nerves, wounds of, in war, (64) 1278, (68) 1366, (61) 1456, (68) 1689, (89) 2026, (103) **2027**, (43) **2103** (20) **2171**
nerves, wounds of, in war, early operative treatment, (33) 474, (46) 1800, (78) 2025
nerves, wounds of, treatment, (28) **2101**
PERIRENAL hematomas, spontaneous, (118) 626, (116) **1202**
PERISTALSIS, antagonistic action on, of elements of intestine content, (85) 2106
PERITHELIOMA of ovary in young woman and hard ovarian tumors in general, (100) 1538
superior maxilla and ethmoid, (33) 2022
PERITONEUM abscess perforating into bladder, (108) 1281
cystomyoliposarcofibroma, huge, (132) 1039
lymphatic drainage of, (23) **1106**
multilocular cyst-adenomata originating in, (27) 1106
pain in intestines and, (71) 476
postoperative adhesions in, prevention of, (24) **1107**
pseudomyxoma, (152) 180, (36) 700
pseudomyxoma of, and pseudomucinous cyst of appendix, ***1834**
tuberculosis of, and cirrhosis of liver, **80**—ab
typhoid complications, (26) **2171**
PERITONITIS, acute diffuse, treatment of, (17) **2170**
appendicular, and acute appendicitis, pathologic changes in, (7) **1449**
circumscribed lumbar-sacral edema sign of, (36) 861
diffuse, due to perforation, (35) **700**
general, drainage in, (106) **179**
general, treatment of, (36) 1684
ileus accompanying, (38) **857**
inflammatory processes of ovaries and fallopian tubes in relation to, operative treatment of, (51) 1619
kinetic theory of, (10) 1029, (123) **1361**
pneumococcus, (149) **86**
pneumococcus, during puerperium, (107) 949
suprarenal hemorrhage simulating, (98) 1538, (78) 1802
tubercular, (29) 774
typhoid complicated by, in war, preventive treatment of, **1928**
PERIVASCULAR nerves, stretching and severing in trophic disturbances and painful symptoms of arterial origin, (71, 72) **375**
PERKINS' Favorite Prescription for epilepsy, **847**—P
PEROXIDASE reaction of rabbit's liver, effect of phosphorus poisoning on, (53) 2097
PERSPIRATION, insensible, facts about, **2142**—E
of feet, formaldehyd prevents, (94) 549
PERTHS' compressor to arrest circulation, modification of, (72) 2105
disease, (3) **1611**
PERTUSSIS: See Whooping Cough
PERUVIAN BALSAM, oil from birch tar as substitute for, in infection of soft parts, (102) 625
PESSARY and tampon holder, improved, ***1067**
stem, (121) 93, (37) **474**, (104) 1691
PETROUS bone, removal of tumor through, involving auditory nerve, (122) **1368**
PHAGOCYTOSIS, factors determining, **1918**—E
mechanism of, (52) **1358**
PHALANX, ungual, of thumb, paralysis of, from spontaneous rupture of extensor pollicis longus, ***1138**
PHARMACOLOGY of respiratory center, (75) **1193**
practical, ***147**, **156**—E, ***242**, ***337**, ***431**, ***509**, ***568**, ***659**, ***740**, ***825**, ***904**, ***992**, ***1070**, ***1155**, ***1240**, ***1318**, ***1396**, ***1496**, ***1581**, ***1665**, ***1758**, ***1846**, ***1910**, ***1986**, ***2063**, ***2132**
PHARMACOPEIA, British, and general practitioner, (42) 1687
British, 1914, impressions of, (8) 698
new, and metric system, **1011**
United States, and National Formulary, (**144**) 1879
PHARMACY in Indiana, how to advance, (59) 1031
PHARYNGITIS, acute, treatment, **151**—T
septic, outbreak of, (3) 1797
PHARYNX, abscess behind, 2 cases, (128) 85
abscess, otogenic, (31) 943
dermoids of, (31) 1363
emetin in hemorrhage following operations on nose and, (63) **468**
epithelioma of mucosa, in fowl, (52) 1107
infections of nose and, in relation to eye and ear, (75) 469
PHENACETIN, ***740**
poisoning, recovery, (28) 1196
PHENOL and camphor in infectious processes, (120) **93**
and chloral in tetanus, **1266**
and salol prophylaxis of tetanus, (49) 374
in tetanus, (20) 88, (30) 184, (18) **278**, (29) 372, (65) **475**, **686**
in treatment of gunshot and shell wounds, (23) **1880**
injection in infected joints, (12) **693**
poisoning, acute, lavage in, experimental study of, (19) **1684**
PHENOLEUM Disinfectant, G. G., **456**—P
PHENOLPHTHALEIN, ***1912**
PHENOLSULPHONEPHTHALEIN, excretion of, effect of theobromin sodium salicylate in acute experimental nephritis measured by, (29) **273**
kidney function test, (123) **180**, (68) 475, (56) **940**
kidney function test and anatomic changes in kidneys at necropsy, (1) **271**
kidney function test, simple colorimeter for use in, ***1757**
separate kidney function determined by ureter catheter and, ***223**
test, effect of anesthesia and operation on kidney function as shown by, (13) **1190**
test from viewpoint of abdominal surgeon, (148) **181**
test in chronic nephritis, ***1885**
test, 2½ years' experience with, (112) **697**
PHENOLTETRACHLORPHTHALEIN test of liver function, (28) **273**
PHENYLOSAZONES of pentoses and hexoses, mutarotation of, (49) 1358
PHILIPPINE mago, lymphagogic action of, (110) 1529
PHILIPPINES, beriberi among scouts in, prevention of, by modifications in diet, ***1215**
civil service examinations in, **522**
consumption of milk in, **1098**—ab
pelvimetry and cephalometry among, (108) 1529, **1854**—E
typhoid in, **1163**—E
PHLEBITIS and epididymitis with gonorrhea, (110) 1032
PHLEBOTOMY, tube for use in, (36) 857
PHLEGMONS, conservative treatment of, in war, (72) 186
continuous bath for, (70) **186**
ear, in scarlet fever, (136) **1040**
gas, (52) 281, (43) 781, (65) 1278
gas, after criminal abortion, (80) 91
gas, differentiation and treatment, (82) **550**
gas, in pia mater, (47) 1535

PHLEGMON, gas, nature and treatment of, (113) 1691
gas, oxygen for, (51) **185**
gas, oxygen for, in field, (65) 1535
gas, Roentgen differentiation of, (132) 951
hand, spreads by continuity, **(18)** 2179
prevalence of, at point of anti-cholera inoculation, (89) 1037
West intranasal partial resection of tear sac for, (32) **467**
PHONETICS, experimental, Italian society for, **2080**
PHOSPHATURIA, (108) 1117
PHOSPHOLIPINS, quantitative estimation of certain groups in, (47) 1358
PHOSPHORUS, acid-soluble, estimation of lipoid and, in serum, (11) 2096
and nitrogen in butter-fat, (17) 2096
compounds, organic, therapeutic value of, ***573**
in wounds produced by German artillery projectiles, **1089**
liver lesions due to chloroform, alcohol and, influence of diet on, (51) 569
poisoning, effect of, on peroxidase reaction of rabbit's liver, (53) 2097
PHOTOGRAPHS of body as evidence, 535—MI
PHOTOTHERAPY for wounds in war, (57) **1114**
PHRENIC NERVE, influence of resection of, on experimental lung tuberculosis, (63) 548
PHTHISIS: See Tuberculosis, Lung
PHYSICAL director, (52) 2019
therapeutics, (67) **941**
PHYSICIAN: See also Medicine, Practice of; Profession, Medical
PHYSICIAN, (119) 619
aboard ship, sphere of activities of, (92) 469
advantages of training for, **(40)** 1192
aid for families of, placed in need by war, **1777**
appointed member of Spanish cabinet, **676**
army, retired, fields of useful endeavor for, (99) 179
as sanitary policeman, **564—ab**
as witness, rights and duties of, (146) 1879
attending, opinions of, and others as to mental capacity in contest of will, **462—MI**
Austrian and Turkish governments ask for, **1257**
bag of, **767—ab**
Belgian, aid for, **65**, **162**, **258**, 354, **448**, **449**, **523**, **602**, **675**, **755**, **842**, **914—E**, **921**, **1009**, **1087**, 1172, 1257, 1338, 1436, **1511**, 1595, **1670**, **1776**, **1860**, **1926**, **2000**, **2079**
book of visits and proof of accounts, admissibility in evidence of, **76—MI**
Brazilian, impressions of war, (108) 1367
British, accused of being spies examined in medicine for their lives, **450**
business methods of, (85) 1360, (82) 1796
Canal Zone, to meet at San Francisco, **64**
career of, **1025—ab**
casualties among, in war, **603**, **920**
Chinese, advent of, into California, (31) **774**
civilian, effects of war on, **66**
civilian, private practice and military service of, **524**
company, funds not recoverable by, **1356—MI**
contracts with, to furnish medicines and attend poor, effects of, **690—MI**
co-operation of dentists and, in conservation of health, (100) 1616
country, (138) **86**, **1095—C**, **1931—C**, **2086—C**
deaths of, in **1914**, **56—E**
death of prominent, causes of, (50) 2103
decoration of Legion of Honor for, **2152**
diligence and professional success, (1) 277
directions to patient, (58) 618
dispensing drugs by, (47) **274**
dissensions and jealousies among, (84) 1360
drug habit and, (108) 469
PHYSICIAN, duties of, to laity, (100) 1032
education of deaf and obligations of, (55) **2019**
employment of surgeons and, according to ability during war, **756**
England needs, **1172**, **1513**
English medical service commended, **921**
entitled to recover from third party for services, **1024—MI**
eugenics and, (39) 1527
examination by, traumatic neuroses generated by, (88) 1623
examined by state boards during 1914, **1402**
examining, relation to insurance company, agent and applicant, (21) 1358
family, of future, (33) 467
fear of premature cremation, **2081**
financing families of, on military service, **2003**
for Indian Service, examinations for, **161**
French, honored for bravery, **602**
French, refugees from war zone, emergency aid for, 1069
general culture and refinement of, (98) 942
go to war, **1008**
grouping of, for office and hospital practice, (133) 86
health department and, (17) 2018
honor for courageous conduct of, in civil life, **1437**
houses for, in earthquake zone in Italy, **1256**
in army, conservation of practices of, **1011**
in civil practice, effects of war on, **354**, **450**
in Cuba, donations from, to French Red Cross, **1594**
industrial medical insurance and, (97) 1943
iron crosses for, **258**, **604**, **678**, **1669**
jail sentence for slandering, **353**
laboratory work and general, (127) 1616, (149) 1879
laity and, (103) 85
life of, **431—ab**, (97) 1529
longevity of eminent, (23) 88
malpractice action not maintainable against, for miscarriage by woman taking abortifacient independently, **1186—MI**
manufacturing of evidence by, a punishable offense, **172—MI**
medical society and, (50) 1031
medicolegal decisions affecting, (68) 1115
medicolegal questions interesting, (64) **1689**
medicolegal rights and duties of, in court, (125) 1616
military, and legion of honor, **2002**
military, number of killed, wounded and sick, **677**
military, with 97 wounds, **677**
mission fields in need of, **1669**
modern, requisites of, **157—ab**
not liable for taking of wrong medicine, **172—MI**
obligations of patients to, from the code of ethics of American Medical Association, 1353—ab
old time, (110) 543, (80) 1943
opportunities for, in England, Ireland and Scotland, (128) 543
panel, defects of Insurance Act owing to overprescribing by, **1088**
patient and, (95) 1685
popularity of, **690—MI**
power of vice-president to contract for services of, **462—MI**
prescribing intoxicating liquors, duties and rights of, **1269—MI**
prosecuted under wrong provision and indictment erroneously changed, **76—MI**
public health and, (53) **178**, (108) 275
public school system and, (96) 1529
qualified, full complement of, for navy medical corps, (103) 1943
reasons for being, (29) 1358
Russia appeals for more, **1511**
scarcity of, in civil practice, in England, **451**, **602**, **1010**, **1172**, **1927**
Serbia needs, **1088**
services by, proof required of account for, **1100—MI**
sons of, killed in war, **2003**
street conditions and duty of, (117) 1943
PHYSICIAN, superstition and, **(43)** 1107
surgeon and, (95) 1453
swindler and, **1247—E**
Thackeray's, (53) 940
unconscious psychotherapy, **(142)** 1693
Vienna, and war, (95) **284**
wage earners' insurance and, **1598**
woman, decorated for bravery, **65**
women, increase in number of, **2153**
workmen's compensation law and, (91) 1360
young, and proprietary medicines, ***1819**
PHYSICS, physiologic, and eye and ear, (69) **468**
PHYSIOLOGIST, examination for, by United States Civil Service Commission, **1594**
PHYSIOLOGY of cuvierian organs of holothuria captiva Ludw., (22) 693
pathologic, (32) 1107
PHYTIN, **456—P**
hydrolysis of, by enzyme phytase in wheat bran, (73) 1876
in wheat bran, (75) 1876
PIA, angioma racemosa of, with epileptoid convulsions of Jacksonian type, ***1575**
gas phlegmon in, (47) 1535
PIE, damage for death from ptomain poisoning from eating, 173—MI
PILOCARPIN, (85) 1685, ***1846**
PINCERS to turn appendix stump inside, (118) 93
PINENE, vapor of, in lung tuberculosis, (101) **777**
PINKHAM, Lydia, Vegetable Compound, **1674—P**
PIPET holder, ***1318**
method for isolation of single microorganisms and inoculation of substances into living cells, (155) 87
removing cotton stoppers from, ***584**
von PIRQUET test, cutaneous regional variation in, (23) 1191
test, instrument for scarifying in, (72) 1528
test, significance of, (77) **542**, (122) 778
PITUITARY BODY: See Hypophysis Cerebri
PITUITARY EXTRACT (38) 467, *1399
and thymus in dementia praecox, 937—ab
anterior lobe, and growth of cancer, (67) **1108**
effect of, on fever pulse, (99) **1360**
effect of, on secretion of cerebrospinal fluid, (13) **693**
in controlling hemorrhage in surgery of nose and throat, ***301**
in dementia praecox, (6) **1939**
in intestine paresis, (98) 371, (94) 618
in labor, (76) 542, (64) 701, (30) 861, (103) 1201, ***1222**, (61) 1942, (81) 2099
in marginal placenta praevia, (131) 469
in rheumatic arthritis, (11) 692
in uterus hemorrhage, (102) 696
standardization, **1249—E**
therapeutic value of, (3) 277, **(47)** 371
PITUITRIN, action of, on acute heart failure and incompensate heart lesions, (39) 273
in obstetrics, (78) 87, (3) **1874**
injections of, and milk secretion, (1) **856**
PLACENTA, adherent, management of placental stage of labor with reference to, **2015—ab**
diagnosis of one or more, at birth of twins, (89) **1200**
expulsion of, to facilitate, **2062**
extract, active substance isolated from ovary and, (61) **1114**
extract, production of abortion and labor with, experiments in, (131) **1110**
full-term, nine-millimeter human embryo in margin of, (104) 2020
praevia, abdominal cesarean section following interposition operation for uterus prolapse complicated by, (88) 1032
praevia, advantages of external version, (25) **1533**
praevia, fetal heart sounds in, study of, (7) **1029**
praevia, pituitary extract in marginal, (131) 469
praevia, treatment of, (101) **1201**, (3) **1526**, (125) 2021
PLACENTA, premature separation of, and eclampsia, (41) **2023**
proteins in skin reactions of human body, specificity of, (3) **176**
retention of, after abortion, **(49)** 2103
retention of, and puerperal infection, (71) 283, (63) **1114**
retention of scraps of, (105) **377**
velamentous, fetal death from rupture of, (20) 1798
PLAGUE, bubonic, **(98)** 284
bubonic, infection, modified in rats and guinea-pigs, (114) 697
bubonic, laboratory diagnosis of, (21) 1029
campaign against, in New Orleans, **257**, (121) **778**, **1256**
declining in Dutch East Indies, **2030**
distribution of, and climate, **1162—E**
epidemiologic observations in Madras Presidency, (11) 1033
immunization by living avirulent cultures (Strong), (14) 1033
immunization by pseudotubercle bacillus, (13) 1033
in Denmark about 1600, (148) **380**
in Havana, ***29**, **1435**
in Italy, prophylaxis of, **65**
in Stockholm about 17th century, (146) 627
infectivity in, persistence of, **(19)** 1034, **1251—E**
influence of race on efficiency of antigen, (15) 1034
pneumonic, prophylaxis, of, **(82)** 624
pneumonic, views regarding, **59—E**
rat, facts about, **1079—E**
rats, finding fleas on, **126—ab**
transmission of, by fleas, mechanism of, (20) 1034
vaccination against, body-strain of, (12) 1035, (16) 1034
vaccination against pneumonia and, (25) 2022
vaccine, ultraviolet light as germicide in preparation of, (18) 1034
PLANTS, disease resistance in, **2141—E**
stinging hairs of, **267—ab**
PLASMA cultures, connective tissue changes in, (62) 863
removal, **514—E**
PLASMAPHAERESIS, 514—E, **2163—ab**
PLASTER, adhesive, double coated, in radium and roentgenotherapy, (83) 275
adhesive, dressings with, for war wounds, (47) **1801**
casts, adjustable, extension, (39) 2102
casts and dressings, technic for, (53) 475
casts, bridge, (37) 1800
casts, bridge, for fractures in war, (53) 1801
casts, dangers of, (66) 1278
casts, fenestrated, (100) 704
casts, fenestrated, technic for making, (66) 1937
casts for fracture of femur, technic for, (88) 284
casts, forcible traction of leg while applying, (4) 1691
casts, improved extension, (83) 2025
PLATINUM wire, nichrome as substitute for, in bacteriologic inoculators, ***1069**
PLAUT-VINCENT'S ANGINA: See Vincent's Angina
PLETHYSMOGRAPHIC examinations of normal and sick children, (116) 93
PLEURA, damage of endothelium of, at operations and with artificial pneumothorax, (60) 549
echinococcosis of lungs and, (96) 1117
effusion in children, radiology of, (74) 187
effusion with artificial pneumothorax, (127) **778**, (118) 866
PLEURISY, abdominal symptoms in pneumonia and, (116) 1194
bile, from transpleural wound of liver, (66) 1948
dry, artificial pneumothorax in, (7) **1530**
dry, pleurisy with effusion and empyema, interrelationship of, (18) **84**
in syphilitics, (104) **1460**
pneumonia preceded by, with jaundice following, (26) 1358

PLEURISY, purulent, artificial pneumothorax complicated by, (42) **1618**, (56) **1947**
purulent, treatment, (120) **626**
PLURIGLANDULAR insufficiency, incidence and treatment, (34) 546
PNEUMATIC tools, Raynaud's disease in stonecutters using, ***582**
PNEUMATOCELE, intracranial, following gunshot wound, two cases, (115) 2027
PNEUMOCOCCUS, biologic classification of and serotherapy of lobar pneumonia, (87) 1685
in tuberculous sputum, types of, (64) 775
infection and immunity, (89) 275, (93) 371, (4) 1795
infection, autogenous vaccines in, (15) 1531
infection, extensive destruction of vulva due to, ***1239**
peritonitis, (149) 86
peritonitis during puerperium, (107) 949
protein, hypersensitiveness to, and immunity, (54) **940**
tonsillitis, (92) **625**
ulceration of cornea, (105) 1453, (21) 2022
varieties of, and lobar pneumonia, (63) 775, **1658**—E
PNEUMONIA, (73) 1032
abdominal symptoms in pleurisy and, (116) 1194
aconite in, **1782**
acute, in children, treatment of, (59) **1948**
appendicitis symptoms in, with expulsion of ascaris, two cases, (27) 183
atypical, (77) **2106**
blood pressure in, **1103**—ab
cardiovascular load in chronic myocarditis and, (89) 1453
catarrhal, (147) 1362, (78) **1796**
diagnosis of, (86) 858
experimental, in rabbit, effect of sensitization on development of lesions of, (19) **2169**
experimental, in rabbits, studies on, (43-45) **1527**
experimental, intra-vitam staining in, and circulation in pneumonic lung, (44) **1527**
immunity reaction in, leukocyte in, (45) **1528**
in children, epidemiology of, **2167**—**ab**
iodoform in, intravenous injection of, (94) **1117**
leukopenia in fatal case of, (127) 1530
lobar, (77) **1796**
lobar, and mesenteric tuberculosis, (89) 1685
lobar, and varieties of pneumococcus, (63) 775, **1658**—E
lobar, diagnosis, management and treatment of, (73) 1796
lobar, in children, diagnosis and treatment of, (31) **1613**
lobar, serotherapy of, biologic classification of pneumococci and, (87) 1685
lobar, therapeutic use of aqueous extract of leukocytes in, (82) **696**
optochin in, (62) **1948**
panophthalmia during, (105) 1878
parotitis following, (3) **1944**
quinin in, (73) 1037
Rosenow and Hektoen's antigen in, **2160**—ab
spinal fluid in, ***1227**
studies in, (41) 1876
subcutaneous injections of patient's own blood in, (32) **621**
thoracotomy in unresolved, (138) 1110
traumatic, (52) **700**
treatment of, (121) 85, (61) 946, (79) **1032**, (25) 1358) (73) 1432
vaccination against plague and, (25) 2022
vaccine in, early administration of, (6) 1275
vasomotor mechanism in, (17) **938**
with jaundice, following pleurisy, (26) 1358
PNEUMOPERITONEUM following resection of carcinomatous rectum, evacuation of gas and pelvic abscess, (21) **545**
PNEUMOPERITONITIS and tympanites, differential diagnosis of, (109) **942**
PNEUMOTHORAX, apparatus for inducing, (101) 2027
artificial, (14) 183, (83) 188, (33) **273**, (100) 285, (66) 541, (13) 773, (35) 1687
artificial, action of nitrogen on, (125) 378
PNEUMOTHORAX, artificial, and diabetes, (59) **701**
artificial, apparatus and technic for, (6) 626, (27) 1684
artificial, complicated by purulent pleurisy, (42) **1618**, (56) **1947**
artificial, damage of endothelium of pleura with, (60) **549**
artificial, fatal air embolism in deformed lung in replenishing, (16) **472**
artificial, Forlanini's, (38) 273
artificial, in dry pleurisy, (7) **1530**
artificial, in tuberculosis, (18) 88, (123) **378**, (105, 109) 696, ***897**, (50) 1192, (114) **1202**, (48) 1614, (63) 1615, (46) 1941, (54) ***1973**, 2019
artificial, literature on, **929**
artificial, pleural effusion with, (127) **778**, (118) 866
artificial, theory, history and present status of, (13) 47
in apparently healthy, (87) 784
natural, healing process with, in tuberculous lungs, (92) 1280
tardy, after wounds of lungs, (73) 1457
POINT scale, new method of measuring mental capacity, (45) 82
POISON-CONTAINING bottle, distinctive, **1161**—ab
POISONING, adalin, case of, (55) 185
arsenic, (113) 1194
benzol fumes, acute, fatal, (41) 1112
camphor, epileptiform seizures from, (151) **1694**
carbon monoxid, (58) 178
carbonic oxid, in colliery disasters, smoke as factor in, (13) 1362
chloroform, delayed, (10) 277
chloroform, late, resistance of pups to, in relation to liver glycogen, (68) 775
fish and shellfish, (34) 178
from gases from exploding shells, (57) **1801**
heart, lungs and kidneys, chronic, results of nose and throat operations in, (85) 2089
lead, among north Queensland children, (14) 372
lead, chronic, pathology of blood with, (69) 1199
lead, constipation from, hormonal in, (89) 1458
lead, ophthalmoplegia interna result of, (29) 616
lead, transmission of damage from, to offspring of intoxicated males, **666**—E
mercuric chlorid, in animals, parenteral administration of Hall's new antidote in, ***736**
mercuric chlorid, in Italy, (103) **866**
mercury bichlorid, acute, distribution of mercury in body in, (75) 941
mercury, exposure of dentists to, **1586**—E
metallic, (116) 372
mushroom, case due to **amanita phalloides**, ***1230**
nitrobenzol in attempts to exterminate lice, six cases, (117) 1691
phenacetin, recovery, (28) 1196
phenol, acute, lavage in, experimental study of, (19) **1684**
phosphorus, effect of, on peroxidase reaction of rabbit's liver, (53) 2097
ptomain, from eating pie, damage for death from, **173**—MI
resorcin, from external application of, **1920**—ab
sodium chlorid, **1932**
sodium fluorid, ***1985**
tetrachlorethane, toxic jaundice due to, **766**—ab, (32) 1276
veronal, (84) **188**, (148) **627**
POLIOMYELITIS, (112) 1943
acute anterior, ***509**, (40) **541**, (85) 1032, **1242**—T
acute anterior, clinical aspects and early treatment, (29) 540
acute anterior, deformities due to, treatment of, (86) **777**
acute anterior, in children, (**143**) 552
acute anterior, mechanical and operative treatment of, (6) **693**
acute anterior, neurology of, (65) 941
acute anterior, pathology of, (28) 540
POLIOMYELITIS, acute anterior, prophylaxis and orthopedic management of, (66) 941
acute anterior, silk ligaments at ankle in, (4) **693**
acute anterior, third outbreak of, at West Kirby, (23) 545
acute anterior, treatment of, (6) **544**
acute anterior, treatment of, and Vermont epidemic of 1914, ***2118**
epidemic, mode of infection and etiology of, (1) **1682**
epidemiology of, (27) 540
meningitic type, case of, (65) 1615
microbic, cause and manner of infection of, (59) 1876
multiple sclerosis with, (79) 549
virulence of organism grown from tissues, (36) **370**, **517**—E
virus, diffusion and survival of, (70) **1796**
POLLUTIONS, nocturnal, endoscope in treatment of, ***48**
POLYARTHRITIS, chronic, enlargement of lymph glands at elbow with, (59) **1114**
POLYCYTHEMIA, chronic, (135) **94**
POLYDACTYLISM, (117) 1952
hereditary, ***1640**, (143) **1694**, **1931**—C, **2086**—C
POLYNEURITIS, ataxic, resembling tabes, (88) 371
experimental, (84) **84**
following dysentery, among soldiers, (94) **1690**
post-diphtheric, (127) 94
toxic, motor type, (2) 1879
POLYPOID adenoma, stomach, (133) 189
POLYPUS, chronic ulcerative colitis with, (10) 2017
intestinal, (122) **1361**
nasopharynx, (21) 1357
rectum, four cases in one family, (3) 1111
rectum, in children, (122) 1943
stomach, multiple, (53) **548**
POLYSACCHARIDES, soluble, of lower fungi, (76) 695
POLYSEROSITIS, tuberculous, (142) 952
POLYURIA, psychopathic, (31) **1112**
PONDER'S stain for diphtheria, modification of, (19) 1450
POOR, contracts with physicians to furnish medicines and attend, effects of, **690**—MI
POPLITEAL aneurysm in girl, Matas' restorative operation, (4) 1033
POPULATION, statistics of, in 1914, **1671**
POROUS plaster, severe toxic symptoms in kidneys, bladder and urethra after wearing, (58) 1278
PORTAL VEIN, arteriovenous anastomosis of, wards off necrosis of liver after ligation of hepatic artery, (104) 625
thrombophlebitis, septic, complicating gangrenous appendicitis, (62) **940**
vasomotor nerves of, (7) 855
PORTO RICAN Medical Association elects officers, **160**
PORTUGUESE journal, reproduction in, of old code of ethics, **1332**—E
POSTGRADUATE study, American, bureaus of information for, **168**—C
study in New York, **72**—C
teaching of surgery, (5) 1944
work, opportunities for, **2174**—ab
work, report of committee to investigate graduate medical instruction, **854**—ab
POSTMORTEM: See Necropsy
POSTOPERATIVE CARE: See Operation
POSTURE, disturbances of, (124) 1879
influence of, on digestion in infants, (4) **1272**
of body and health and efficiency, (51) 274
sitting, hygiene of, (127) 626
POTASSIUM permanganate in sloughing and tetanus-infected wounds, (20) **372**
permanganate reaction, Weiss', in urine, (139) **2029**
permanganate to liberate formaldehyd gas from water solution, substitute for, **459**—C
POTATO, therapeutic value of, (72) 1037
POTT'S disease, Albee's bone grafting operation in, twenty-six cases, (8) 81
disease, bone grafting for, (49) 541
disease, Hibbs' osteoplastic operation for, ***398**
paraplegia with complete paralysis for five years, recovery after treatment, (8) 1611
POVERTY and sickness and the hospital, (129) 86
PRACTICE act, medical, constitutional, **1357**—MI
act, medical, New Jersey, important changes in, **2087**
act, medical, new, needed in Tennessee, (134) **544**
act, medical, sufficiency of indictment and instruction under, **933**—MI
contract, (106) 1274
contracts with physicians to furnish medicines and attend poor, effects of, **690**—MI
laws, medical, present legislature should give Tennessee better, (113) 1453
lodge, (74) 1452
of Medicine: See Medicine
unlawfully, defects in information and trial for, **1355**—MI
PRECANCEROUS lesions, early treatment of, (129) 1194
PRECIPITIN reactions, research on, (123) **286**
specific, in blood injected with antidiphtheric horse serum, (78) 775
PREGNANCY, abdominal fixation of retroflexed uterus and, thirty-eight cases, (22) **279**
abdominal, infected, with extension of long bones into bladder and bowel, (12) **1110**
abnormal, (131) 1194
acidosis and nitrogen partition in, (2) 698
anaphylaxis and, (101) 376
and Italian earthquake, **1444**
appendicitis complicating, two cases, (54) 1273
appendicitis, gangrenous, during, (146) 2029
appendix ruptured at full term, ***739**
blood pressure during, ***393** (67) 2099
blood serum in, noncoagulable nitrogen coefficient of, (7) **1526**
breast cancer and, relations between, (42) **1197**
cholelithiasis and, (62) **1114**
cholesterin in blood during, (99) **865**
chorea in, (98) **1201**, (83) **1803**
chorio-epithelioma malignum complicating, and degenerated uterine fibroma, (120) 1561
dermatoses of, (30) 1527
diagnosis of, based on presence of specific enzymes in urine, ***1651**
diagnosis of, by proteolytic ferment in serum, (102) **377**
disturbances, treatment of, on basis of faulty metabolism, (56) **1801**
eclampsia at fourth month, (94) **2027**
exochorial, changes in parietal decidua with, (106) 1201
extra-uterine, (161) 87, (86) 1193, (15) 1272, (79) 1280, (36) 1451, 1523—ab, (133) 1944, (80) **2019**
extra-uterine, amenorrhea in diagnosis of, clinical significance of, (8) **1874**
extra-uterine, and general practitioner, (11) 1029
extra-uterine and intra-uterine, simultaneous, (117) **1282**
extra-uterine and normal, simultaneously, with retrodisplacement of uterus and myomas in uterus, (101) 1623
extra-uterine, at term, fetus long dead, (97) 376
extra-uterine, diagnosis before rupture, plea for, (8) 1029
extra-uterine, difficulties in diagnosing, (123) 1194, **2091**—ab
extra-uterine, double, with rupture in one tube, (171) 87
extra-uterine, emergencies of, at Boston City Hospital, sixty-two cases, (42) 616
extra-uterine, mode of termination in, seven cases, (6) 1526
extra-uterine repeated in same tube, (125) 1194

PREGNANCY, extra-uterine, ruptured, emergency treatment of ruptured uterus and, 1792—ab
extra-uterine, twice in same patient, (42) 857
extra-uterine, with missed labor, (44) 1197
fibroids of uterus complicating, (84) 371, (114) 1360
fibromas during, pain from, (94) 188
fibromyoma increasing in size during, (109) 1367
government help for German women during labor and, 261
implantation of ovary into uterus with resulting, (23) 467
influence of, on hyperglycemia of pancreatic diabetes, (25) 694
internal secretion during, (150) 380
kidney and eclampsia, treatment of, (100) 865, (113) 1201, (133) 2028
kidney changes in, diagnosis and prognosis, (36) 474
kidney necrosis in, symmetrical cortical, (31) 1034
Korsakoff's psychosis in, (101) 1691
leukemia in, (28) 89
Malta fever and, (43) 2023
mastitis in, (40) 273
myoma and, (50) 1795
myomectomy during, (19) 1798
ovarian, (108) 1624
ovarian tumors in, 270—ab, (134) 110
proteolytic ferment test of gynecologic disease and, (103) 377
pyelitis of, (58) 1114, (47) 1192
pyelonephritis in, treatment of, 2093—ab
rupture of intestine from contusion during, (35) 474
serodiagnosis of, (74) 283, (153) 544, (58) 1034, (41) 1451, (96) 2027
skin diseases in, (69) 541
toxemias, (62) 1273
toxemias, etiology and treatment, (21) 774
toxemias, etiology and treatment of hyperemesis and, (17) 1798
toxemias of later, treatment of, (1) 2169
tuberculosis and, (137) 867, (15) 1029
tuberculous meningitis and tabes dorsalis in, (84) 1932
twin, hydrdramnios in, 850
PRENATAL care, 78—ab
care, limitations and possibilities of, *95
care of obstetric cases, (32) 177
care, resources for giving, (9) 1272
PRESCRIBING over telephone, danger of, 843
PRESCRIPTIONS, shotgun, 531
PRESENTATION, abnormal position of head, in primiparae at term, (82) 947
breech, (140) 1275
breech, impacted, treatment, (18) 1196
occiput posterior, (8) 1526
transverse, (124) 1194
vertex occipitoposterior, with reference to Scanzoni maneuver, (20) 1272
PRESERVATIVE, food, German decision in relation to, 1078—E
PREVENTION, armies of slaughter and army of, 265—ab
is greater than cure, 54—T, 149—T, 246—T, 341—T, 434—T, 512—T, 588—T, 662—T, 742—T, 828—T, 907—T, 995—T, 1073—T, 1158—T, 1242—T
PRIMITIVE physic of Rev. John Wesley, *628
PRISONERS, camps of, hygiene in, (49) 781
exchange of, 1860, 1926
German, in England, 677, 756
of war, German and French invalid, exchange of, 1259
war, in Germany, 1860
war, taking, (128) 1692
PRIVILEGE, not a waiver of, 767—MI
waiver of, by plaintiff, 269—MI
waiver of, statute construed as permitting, in one way only, 1680—MI
PRIVILEGED communication under amended statute, 1446—MI
information not obtained for purpose of treatment is not, 1870—MI
PRIZE distributed by Paris Academy of Medicine, 258
for social hygiene pamphlet, 1171
international, another postponed on account of war, 161
M. Salomonsen, goes to Fibiger, 1256
medal, Gorgas, 1775
offered by Association of Medical Press in Cuba, 1594
Osiris, 1928
Virchow, goes to Toldt, 676
PROCEEDINGS of National Academy of Sciences, a new journal, 597—E
PROCTOLOGY, modernized, (94) 469
PROCTOSCOPY, direct vision cystoscope with water dilatation for, *1154
PROFESSION: See also Medicine; Physician
PROFESSION, medical, (108) 1274
medical and legal, different attitudes of, 1265—C
medical, and medical education, (60) 1032
medical, and public health, (35) 82
medical, and social insurance, *381, (146) 620
medical, and war, (48) 700, 1340
medical, as advertising agency, 442—E
medical, Cabot and Bernard Shaw on, 762—C
medical, exploitation of, in respect to medical certificates, (16) 2022
medical, of Kansas, what is wrong with, (66) 274
PROFESSORS, university, adoption of age limit for, 1776
PROGNOSIS, medical, problems in, (67) 1274
PROPRIETARY MEDICINES, advertisements of, American Journal of Medical Sciences will not accept, without approval of editor, 156—E
and young graduate, *1819
foreign, German substitutes for, (94) 1458
frauds, Harper's Weekly publishes series of articles on, 157—E
PROSECUTION under wrong provision and indictment erroneously changed, 76—MI
PROSTATE abscess opened through cysto-urethroscope with high frequency spark, *431
anatomy of, and contiguous structures, (111) 858
calculi, (132) 551
calculus, retention of urine from unsuspected, (105) 1281
cancer, 367—ab, (128) 1110
hypertrophy, (68) 274, (110) 371, (126) 626
hypertrophy, senile, value of two-stage operation for, (82) 469
obstruction and bladder atony, obscure forms of, (22) 1106
operations and arteriosclerosis, (131) 1879
shield for examinations of, *1909
PROSTATECTOMY, local anesthesia for, (136) 1361
mortality after, (48) 1273
perineal, cases of, (21) 1527
safeguarding in, (135) 778
suprapubic, (109) 371, (44) 1614
suprapubic, hemostasis in, 242—ab, (62) 857
suprapubic, spinal anesthesia, novocain, in, (34) 2022
transvesical, results of, (56) 857
PROSTATITIS, chronic, factor in iritis, (155) 1944
chronic, treatment by general practitioner, (116) 85
literature on, 2087
PROSTITUTION and venereal disease, (15) 774
war and venereal disease, (41) 1456
PROTEID content of cerebrospinal fluid, (60) 83
origin of digestive disturbances in infants, (48) 1795
PROTEIN, absorption of fat and, after resection of one-half of small intestine, (7) 271
absorption of fat and, in typhoid, (6) 2095
animal and vegetable, purified, behavior of bacteria toward, (51) 1358
Bence-Jones, 669—E
PROTEIN, comparison of serum of hen, turkey, duck and goose, with respect to content of various, (68) 695
comparison of serum of pigeon, rooster and guinea-fowl with respect to content of various, in normal and fasting condition, (69) 695
curve of gastric digestion in normal and pathologic cases, *1737
decomposition of, of thyroid, (76) 1877
egg, idiosyncrasy to, in human beings, nature of, *1306
in urine, causes of error in determination of, (69) 475
in urine, crystallizable, 669—E
intake and growth, (48) 1358
metabolic relationship of, to glucose, (43) 1358
metabolism of white races in tropics, (2) 1362
nutritive value of, in growth and problem of protein minimum, (44) 1358
of nephritic urine, origin of, (13) 2017
placental, specificity of, in skin reactions of human body, (3) 176
pneumococcus, hypersensitiveness to, and immunity, (54) 940
rich diet, energy metabolism of 2 months' old infant fed on prolonged, 2094—ab
serum, blood relationship of animals as displayed in composition of, (68, 69) 695
supply during war, (34) 1533
urinary, of nephritis, 2140—E
PROTEOSES, physiologic action of, (109) 1529
PROTEUS osteomyelitis, experimental, failure of attempts to induce, (121) 378
PROTHROMBIN, factors of coagulation in experimental aplastic anemia of benzol poisoning with reference to origin of, (64) 1795
PROTOPLASM, action of light on, (25) 939
physical properties of, microdissection studies on, (63) 1452
PROTOZOA, culture medium for, new, 749—E
encysted, in feces, (118) 1367
infections of digestive system, (106) 1360
toxic action of stains on, (116) 1367, (88) 1803
PROWAZEK, death of, 1174
PRUNOIDS refused recognition by Council, 71—P
PSEUDO-ANEURYSM, traumatic, (31) 700
PSEUDO-ARTHROSIS, methods of fixation in, (43) 700
PSEUDOCYST, acute pancreatitis with, (32) 774
PSEUDODYSENTERY in Denmark, (60) 782
PSEUDOHEMOPHILIA or constitutional purpura, (61) 2025
PSEUDOLEUKEMIA: See also Hodgkin's Disease
PSEUDOLEUKEMIA, (71) 275
anemia of, of infants in twins, (130) 940
PSEUDOLEVULOSE of diabetic and other urines, (37) 944
PSEUDOMENINGITIS in tuberculous children, two cases, (87) 2026
PSEUDOMYOPIA, (51) 1795
PSEUDOMYXOMA of peritoneum, (152) 180, (36) 700
peritonei and pseudomucinous cyst of appendix, *1834
PSEUDOTETANUS from diplococcus sepsis, (104) 1951
PSOAS muscle, foreign body in, (73) 857
PSORIASIS, germicidal activity of chrysarobin and other medicaments used in, (71) 618
vaccine therapy of, *903
PSYCHANALYSIS, (42) 1107
act of everyday life treated as pretended dream and interpreted by, (69) 1942
ethical aspects of, (55) 1876
of six feebleminded children, (91) 1117
Prof. Janet on, (56) 1108
PSYCHIATRY and war, (19) 2022
colloidal gold test of spinal fluid in, (9) 1940
extramural, in Baltimore, (53) 1876
in medical colleges, (55) 1031
PSYCHIATRY, new, (28) 1363, (8) 1454, (9) 1531, (1) 1797, (18) 2022
progress in, (30) 857
review of first year's work of dispensary of Phipp's psychiatric clinic, (1) 937
serodiagnosis in, (112) 2027
teaching of neurology and, in Indiana, (48) 178
value of Wilbrand test with new clinical instrument in, (6) 1357
year's progress in, (56) 695
PSYCHIC deficiency after wounds of brain, symptoms of, (64) 1802
factors in mental disorders, (5) 1939
hyperglycemia, 2073—E
life and mannerisms, (71) 557
research and freudian psychology, (57) 1108
therapy, clinical psychology and layman invasion, (72) 1615
PSYCHOGENIC convulsions, (74) 2019
PSYCHOLOGIC standpoint, scientific management of factories from, (30) 2171
understanding, (55) 1108
PSYCHOLOGY, biologic, principles of, (86) 1803
clinical, psychic therapy and layman invasion, (72) 1615
freudian, and psychic research, (57) 1108
of traumatic amblyopia following explosion of shells, (12) 1531
of tuberculosis, (53) 857
of war, (27) 275, (50) 1535
PSYCHONEUROSES among soldiers, (40) 1618
emotional factor in, (67) 1452
gastric, (59) 1882
genetic factors in 100 cases, (44) 82
in soldiers, (53) 2024
stammering as, (58) 1108
treatment of, (151) 87, (46) 1031
PSYCHOPATHIC and neuropathic hospitals with reference to medical teaching, (2) 773
hospital, after-care program and results of, 1913-1914, (41) 82
hospital, Boston, analysis of recoveries at, (41) 273
hospital, duty of state to, (39) 82
hospital diagnosis, margin of error in, (50) 83
hospital, high-grade defectives at, during 1913, (43) 82
hospital, progress of, on prophylactic side of mental hygiene, (40) 82
institute, juvenile, in Chicago, 71—C
patients, kidney lesions in, nature and importance of, (90) 84
patients, variations in sensory threshold for faradic stimulation, (47) 83
polyuria, (31) 1112
social service, economic side of, (42) 82
subjects, normal-looking brains in, (58) 274, (41) 616
PSYCHOPATHOLOGY in Dostojewski's novel, (73) 549
of family, (42) 467
of neurosis, (89) 1529
PSYCHOSES: See also Insanity; Neurasthenia; Neuroses
PSYCHOSES, benign, study of, (54) 1876
combined, forty-one cases, (94) 1878
continuous bath in, 1347—C
during war, (51) 1278
for seventeen years, recovery, *1151
internal secretions and, (23) 1112
Korsakoff's, in pregnancy, (101) 1691
Korsakoff's syndrome, (106) 85
neuroses and, related to syphilis, (60) 1685
nutrition in, *1977
of senium, Binet-Simon intelligence tests in, (107) 1032
psychologic feature of precipitating causes in, and relation to art, (40) 467
senile, (79) 947
symptomatic, of cardiorenal type, (49) 82
tabes dorsalis and, (104) 942
PSYCHOTHERAPY, (19) 1357, (138) 2021
in general practice, (124) 942, (59) 1795
physician's unconscious, (142) 1693

PSYCHOTHERAPY, principles of, (124) 551
PTOMAIN poisoning from eating pie, damage for death from, 173—MI
PTOSIS: See also Enteroptosis; Gastroptosis; Splanchnoptosis
PUBERTY, precocious, and excessive hairy growth in girl of 3, (67) 1115
PUBLIC Health: See Health, Public
PUCK on licensing Christian Science healers, 1353—ab
PUERPERAL convulsions, prophylaxis of, (93) 1193
eclampsia, gestational variety of, treatment, (55) 1795
endometritis, turpentine locally in, (146) 1694
genital organs, absorbing capacity of, (108) 1201
infection, (148) 86, (40) 1527, (20) 1875
infection, anaerobic bacteria and, (102) 1691
infection from retention of remnants of placenta, (71) 283, (63) 1114
infection, influenza bacilli in genitalia at term cause of, (97) 2027
infection, perineorrhaphy and pain, (32) 857
infection, surgical treatment of, (43) 374, (135) 1361, (121) 2021
infection, treatment of, (99) 275, (83) 1529
infection with gas bacillus, (81) 284
osteomalacia, (136) 1693
pyemia, ligation of vena cava in, (96) 376
streptococcemia, two cases, (122) 2021
temperature, alcohol drain treatment in, (119) 1797
tetanus, (32) 90
PUERPERIUM, gangrene of limbs during, (6) 466
insanities of, (74) 1360
malaria as complication of, (25) 1034
Malta fever and, (43) 2023
morbidity in, (130) 180
mortality in labor and, *122
pneumococcus peritonitis during, (107) 949
pyelitis complicating pregnancy and, (47) 1192
retrodeviations of uterus in, and in multiparous women, (100) 275
PULMONARY artery, atheroma of, and dilatation of right ventricle, heart failure in child of 6 with, (2) 1195
PULMOTOR, 929
and artificial respiration, 1182
PULSE, alternating, (4) 938
alternating, detected by sphygmomanometer, *739
alternating, pathogenesis and prognosis of, (105) 1951
alternating, revealed by auscultation of arteries, (49) 1946
alternating, sphygmomanometer in determination of, *2061
and diastolic pressure, (9) 271
and viscosity of blood in children, (15) 2170
arterial normal, contour of, *1380
capillary, (58) 782
carotid, normal, study of, (114) 1952
dynamics of, research on, energometer and volumbolometer, (68) 1199
energy of, in children and adults, (89) 1690
energy of, measurement of, in study of cardiovascular apparatus, (67) 1199
examination, difficulty of, in acute appendicitis, (33) 1881
femoral vein, in heart disease, (22) 780
fever, effect of pituitary extract on, (99) 1360
in Adams-Stokes' disease with heart block, remarkable condition of, (16) 1276
pressures, systolic and diastolic, relationship and value of, (115) 942
rate, exercise and body temperature, 62—E
records, adaptation of Frank's segment capsules for clinical use in recording, *1305
supraclavicular venous, *1485
venous, second wave of, (69) 702
PULSE, ventricular venous, symptom of tricuspid insufficiency, (47) 1946
wave, primary, in human arm, (47) 90
PUPIL phenomena, (154) 1944
reaction to epinephrin, significance of, 1916—E
reflex, transient loss of, in diabetes, (122) 1692
PURE Drug and Chemical Company, 848—P
PURGATIVES mode of action, (40) 1534
PURINES, researches on, (79) 941
PURPURA, (38) 939
annularis telangiectodes, (61) 775, (63) 1193, (44) 1685
constitutional, or pseudohemophilia, (61) 2025
constitutional, pathogenesis and treatment of, (32) 2102
experimental, (35) 944
pneumatica, (93) 1685
with hemorrhagic vesicles in boy of ten, (141) 627
PYELITIS, acute, obscure fever in infants due to, (35) 1613
chronic, cause, clinical course and treatment, (140) 1194, (96) 1616
clinical significance, 1790—ab
in children, (41) 1527
pathology and treatment, (53) 862
pregnancy, (58) 1114
pregnancy and puerperium complicated by, (47) 1192
PYELOGRAPHY, (121) 1194
collargol in, effects of, *128
damage done by, (4) 615, (54) 1619
in diagnosis of kidney disease and movable kidney, (51) 945
new preparation for, (25) 1527
thorium in, *2126
value of, (83) 371, (54) 1619
PYELONEPHRITIS in pregnancy, treatment of, 2093—ab
PYEMIA, puerperal, ligation of vena cava in, (96) 376
PYLEPHLEBITIS, appendicitis complicated by, (23) 1940
PYLORECTOMY and partial gastrectomy in gastric ulcer, (119) 470
PYLOROSPASM, chronic appendicitis and duodenal ulcer, *1845
PYLORUS, cancer of, old obstruction in left coronary artery with organized infarct of heart wall and aneurysm, (12) 545
closure of, technic, *506
exclusion of antrum, experimental study of, (1) 1793
obstruction and uterus fibroids, (112) 1453
occlusion of, (23) 1450
stenosis, congenital, gastro-enterostomy for, *410
stenosis in infants, (29) 82, (98) 1616, (60) 1948
stenosis in infants operated on by Keefe method, (7) 176
stenosis, syphilitic, (121) 543
tumor, congenital, operation for, Roentgen examination following, (48) 695
PYOCOLPOS, double uterus with, (24) 1798
PYOCYANEUS processes, aluminum acetate for local treatment of, (52) 475
suppuration, acid dressing to check, (31) 1533
PYOGENIC infection, chronic, cataract due to, (75) 618
kidney infection, stagnation of urine and development of, (75) 623
PYONEPHROSIS, production of, by injection of germs into ureter, *297
PYORRHEA alveolaris and oral sepsis, (115) 1616
alveolaris and secondary systemic infections, deep muscular injections of mercury in, (92) 1109
alveolaris, diabetic type of, (63) 2099
alveolaris, emetin in, *422, *553, (110) 697, (94) 1274, *1567, (24) 2022
alveolaris, emetin in, dosage of, 531
alveolaris, streptococci from apical abscesses and, *1055
and endamebas, 593—E
dentalis and alveolaris, 928—C
in etiology of nervous and mental diseases, (71) 941
vaccine in, (24) 2022
PYOSALPINX, laparotomy for large hydronephrosis developing 21 days after, (27) 1034
PYOSIS corletti in British soldiers, (15) 1617
PYRODIN anemia, experimental, ulcer of stomach and duodenum under, (143) 952

Q

QUACK advertisements in Berlin forbidden during war, 65
and lung tuberculosis, 1383—ab
campaign against, (31) 694
medicines, danger of, 1554—ab
mystery, the great aid of, 444—E
QUACKERY in medicine, why Journal does not let up on, 836—E
QUARANTINE and sanitary arrangements of European ports and measures against introduction of yellow fever into India, (23) 1363
hospital in Bohemia, new, 1860
inadequate, menace of, 1607—ab
literature on, 1348
national government and, 1608—ab
station of port of New York, transfer of, to federal government, 1607—ab
QUARRY accidents in United States in 1913, 171—ab
QUARTZ lamp, Kromayer, Nagelschmidt modification of, in diseases of hair and scalp, (105) 1796
mercury-vapor lamps for biologic and photochemical investigations, (42) 1358
QUESTIONS, hypothetical and others, distinction between, 1870—MI
QUININ, *660
and arsenic in kala-azar, (8) 1797
and blackwater fever, (8) 1362
at cost, 1338
in hydrophobia, (70) 775, (77) 776
in pneumonia, (73) 1037
intravenously in estivo-autumnal malaria, thirty cases, (145) 1194
salts after operations, *146
solution for bladder irrigation, *505

R

RABELAIS, influence of study of medicine on, (58) 1528
RABIES: See Hydrophobia
RACE Betterment, Conference on, 2079
development of, and war, 757
suicide and politics, 1318—ab
RACHICENTESIS in delirium tremens, favorable influence of, (68) 1620
RACHITIS and internal secretion, (110) 93
calcium phosphate in, (90) 703
etiology of, (26) 1945
present status of, (118) 1282
RADIAL artery, rupture of, with fracture of radius in chauffeur, (4) 1797
nerve, access to, (42) 862
paralysis, treatment of, (71) 1115
RADIANT energy and cataract, 668—E, 1264—C, 1603—C
RADICULAR and peripheral innervation of integument, (39) 1881
RADIO-ACTIVE mineral waters of Hot Springs, Warm Springs and Healing Springs in Hot Springs, Va., (40) 935
substances, secondary rays in deep roentgenotherapy substitute for, (76) 1199
waters for control of faulty elimination, efficiency of, (76) 1032
RADIOCHEMICOTHERAPY, internal therapeutics of radio-elements, (75) 1032
RADIOGRAPHY: See Roentgenography
RADIOLOGY and military surgery, (78) 2106
RADIO-REM, 456—P
RADIOTHERAPY, action of gold salts and, in tuberculosis, (38) 1800
and intravenous chemotherapy in uterus and breast cancer, (99) 2027
cancer, (85) 1537, (90) 1803
cancer of uterus cervix, (106) 625
RADIOTHERAPY, ear disease, (129) 1039
fibromyomata of uterus, or surgery, (116) 1033
in gynecology, (78) 1115, (73) 2105
malignant tumors and localized tuberculosis, (71) 1360
skin diseases, (63) 282
ten years of, (140) 1693
tumors of uterus, benign and malignant, (39) 474
RADIUM A B C injected into blood of rabbit, distribution of, 1611—ab
action of, on transplanted tumors in animals, 1525—ab
adhesive plaster, double coated, in roentgenotherapy and, (83) 275
compress, Standard, 1325
earth, Standard, 1325
emanation and radium water, recent applications of, (99) 1274
emanation, condensed, biological action of, (54) 1278
emanation needles, theory and technic of treatment by, (12) 1362
in cancer, (29) 279, (86) 549
in cancer of bladder, (70) 857
in cancer of rectum, (95) 1538
in cancer of uterus, (93) 1200, (14) 1276, (72) 1360, (135) 1693
in cancer of uterus and rectum, results of 33 cases, (144) 1111
in cancer of vulva, (25) 861
in fibroids, 367—ab, (127) 1110
in fibroids of uterus and menorrhagia, (74) 1032
in inoperable tumors of nose and throat, (22) 944
in keloids, *1300
in leprosy, (9) 88
in malignant tumors, (4) 182
in non-malignant gynecologic disease, (120) 1460
in papilloma of larynx, (39) 1273
in parotid tumors, 1611—ab
in surgery and dermatology, (90) 777
Institute, London, report of work at, in 1914, (6) 1195
irradiation in malignant tumor, (1) 778
laboratories at Manchester, new, 451
mesothorium and roentgentherapy, (144) 86
recent work in, (35) 1196
Roentgen-ray keratoses on hand of roentgenologist cured by, *1394
salts, intravenous injection of, in rheumatoid arthritis, study of urinary nitrogen and sulphur partition, (9) 1793
salts, soluble, elimination of, taken intravenously and per os, (129) 1797
Solution, Standard, for Bathing, 1325
Solution, Standard, for Drinking, 1325
Solution, Standard, for Intravenous Use, 2156—P
therapy at Royal Infirmary, Edinburgh, 1914, (7) 1195
therapy from clinical standpoint, conservative estimate of, (94) 371
therapy of cicatrix, (65) 2024
therapy, status of, (62) 1876
therapy, theory and technic of new method, (13) 1276
RADIUS and ulna, partial fusion of, (55) 623
dislocation of head with fracture of ulna, corrected by Lane bone plate, (67) 1615
fracture of, and rupture of radial artery in chauffeur, (4) 1797
fracture of, lower third of, with greenstick fracture of ulna in children, (37) 1038
sarcoma of, homobone-graft in, (12) 2101
RAGWEED pollen, solution of, in hay fever, *655
RAILWAY accidents in 1914, 670—E
employees, instruction of, in practical application of first aid, (83) 2099
equipment for prophylaxis of contagious diseases, 1927
liability of, for wrongfully taking away injured passenger, 2089—MI
medical examination of restaurant employees by, 522
sanitation, (105) 1685
surgeons meet, 1337
surgery, first aid in, meaning of, (100) 777
RAMAZZINI, anniversary of death of, 61—E

SALVARSAN in syphilis, latest investigations regarding, (75) 1615
in syphilis with internal disease, (67) 1883
in syphilis, with other diseases, indications and contraindications for, (83) 2106
in therapeutics of children, (143) 697
in tuberculosis, experiments with, (143) 276
intraspinous injection of, dangers and fallacies of, (89, 93) 941
intravenous and subcutaneous injection of, local changes after, (129) 1202
intravenous injection of, prevention of inflammation from leakage during, *1316
poisoning, hypertonic salt and alkaline solution in, *1811
products, manufacture of, 1596
retention of, (71) 1528
therapy, control of, based on rapidity of arsenic excretion, (51) 83
warning concerning use of, (151) 1195
SALVARSANIZED serum and modified Ravaut intraspinal injections for syphilis of nervous system, *1563
serum in cerebrospinal syphilis, laboratory standpoint, (120) 1033
serum in syphilis, experiences with, (115) 1943
serum in syphilis of central nervous system, 45 cases, (119) 1033
serum in tabes dorsalis, general paralysis and cerebrospinal syphilis, (62) 1452
serum, influence of oxidation and reduction on, (41) 474
serum, injection of, apparatus for, *1317
serum, intraspinous injection of, (117) 180, (149) 276
serum, intraspinous injection of, acute alcoholic hallucinosis in general paralysis with herpes zoster following, (100) 1360
serum, intraspinous injection of, in cerebrospinal syphilis, (21) 938
serum, subconjunctival injections of, in ocular syphilis, (118) 1453, *1649
serum, technic for preparation of, and intraspinal injection, (38) 1451
SALVARSANNATRIUM, (65) 1115, (43) 1535, (64) 1948, (54) 2103
SANATORIUM benefit, misuse of, (9) 1686
burning of, liability for loss of life in, 364—MI
discipline and recreation in, (5) 620
liability of, for negligence of nurse, 1786—MI
patient, care and supervision of discharged, responsibility of general practitioner for, (21) 2018
Public Health Service, consolidating, 1171
record kept by physician, 269—MI
state, in tuberculosis problem, (46) 1273
treatment of tuberculosis, value of tuberculin in, (25) 545
tuberculosis, (59) 274, (14) 545, 914—ab
tuberculosis, 4 years of work in, (118) 1952
tuberculosis, in south, (126) 778
tuberculosis, municipal, and auxiliary agencies in Chicago plan for municipal control of tuberculosis, (76) 1108
tuberculosis, Roentgen ray in, (68) 1193
tuberculosis, View Point, (159) 544
work, results of 15 years of, (110) 1624
SAND-FLY fever and atmospheric temperature, (28) 1276
SANITARY and quarantine arrangements of European ports and measures against introduction of yellow fever into India, (23) 1363
brigade organized at Madrid, 161
code, New York's new, 837—E
commands, independent, in field, guide to facilitate organization and administration of, (103) 1109, (73) 1529
commission for Serbia, reenforcement for, 1860
conference in Portuguese India, 601
SANITARY engineer, expert, public health service may not have, 841
equipment at Panama exposition, 1511
improvement in Toronto, 1226—ab
investigation of navigable waters by U. S. Public Health Service, 666—E
management, general, (61) 1273
medical department, headquarters of supplies for, 1926
officer on duty with soldiers, (82) 1037
privy and rural hygiene, (92) 777
service in German and French armies, Italian inspection of, 1776
service in National Guard, evolution of, and defects in administration, (91) 469
survey of Minnesota, 172—ab
troops, U. S. army, 1914, drill regulations and service manual for, (88) 469
work of army at Vera Cruz, (99) 1109
works in Argentina, 2173—ab
SANITATION, and children in South Carolina, (146) 276
in ancient civilizations, (173) 87
in Brazil, (15) 466
in field, (77) 702
municipal, observations and suggestions on, (132) 778
municipal, political and economic aspects of, (109) 275
of battlefields, 1727
of camps, (9) 1275
of construction camp at Elephant Butte, (102) 1032, 1166—E
of packing houses and federal meat inspection service, (18) 1450
of swimming pools, 1427—E
of Vera Cruz and army camps during occupation of U. S. expeditionary forces, (19) 1029
railway, (105) 1685
rural, 2074—E
rural school, report of committees on, 348—E
vital statistics and, 2129—ab
SANMETTO, 926—P
SANTAL, 926—P
SARCOMA, age incidence in, (22) 1612
arsenic compounds and Rous chicken, (15) 2168
bone ossification in, (3) 779
brain and spinal cord, (164) 87
Coley mixed toxins in inoperable, (43) 1031, (47) 1107, (31) 1191, (49) 1273
cultivation of tissue of human, in vitro, (52) 1273
epithelbar, with microscopic and macroscopic sections, (31) 616
femur, myeloid, with pathologic fracture, (6) 1530
intra-ocular, spontaneous rupture of globe in, (22) 939
jaw, excision of upper for, (29) 2022
kidney, (119) 543, (104) 1360
lymphoblastic, in boy of three (34) 781
meninges of brain, round cell, (98) 1796
multiple nonpigmented, (139) 2021
nasopharynx, (5) 778, (107) 1616, (63) 2019
ovary, (64) 1273
ovary, in child of three, (124) 1361
radius, homobone-graft in, (12) 2101
serum of chicken, chemical studies on, 1525—ab
skin, generalized, nonpigmented, *1901
stomach, primary, (98) 1118
tongue, *291
transplantation of fowl by injecting filtered citrated blood plasma of infected fowl, 1525—ab
uterus, (144) 180
uterus fibroids and, relationship between, (5) 1029
uterus fibroma undergoing sarcomatous degeneration 5 years after roentgenotherapy for pressure and hemorrhage, *1653
SARCOSPORIDIA in Panama, (54) 1615
SAW PALMETTO, 926—P
SAW, surgical history of, (66) 946
SAXL-SALOMON sulphur reaction in urine with cancer, (76) 476
SCALE, pocket baby, (7) 367
SCALP, avulsion of, *1238
diseases of, Nagelschmidt modification of Kromayer quartz lamp in, (105) 1796
SCALP, keratosis pilaris of, (6) 1105
ringworm of nail, trunk and, of feeble-minded girl of twelve, (140) 868
ringworm of, vaccine therapy of, (62) 1192
torn off entirely, 111th case on record, (32) 700
tumors, benign multiple, (48) 1619
SCALPEL, how to sharpen, (130) 860
SCANZONI maneuver, vertex occipito-posterior positions with reference to, (20) 1272
SCAPULA, enchondromata of, (153) 180
osteo-enchondroma of, (54) 371
SCAR: See Cicatrix
SCARLET FEVER, 908—T, 995—T
dissemination of, 443
epidemiology of diphtheria and, in Christiana, (119) 286
epidemiology of whooping-cough, measles and diphtheria in Cleveland for 1913, (26) 368
experimental, in monkey, (40) 1035
from sociologic standpoint, (40) 1800
gonococcus septicemia with arthritis following, (28) 82
inflammation of accessory sinuses of nose complicating, (71) 91
pathologic-anatomic changes in myocardium and heart ganglia in, (69) 91
pemphigus and unexplained edema in convalescence from, (11) 1112
pemphigus complicating, (10) 1111
phlegmons around ear in, (136) 1040
return cases of diphtheria and, *487
serotherapy of, (56) 1113, (69) 1620
treatment, (78) 624, 1073—T
vaccine therapy of, 929, (5) 1111
SCHAUTA-WERTHEIM operation for prolapse of uterus, ultimate outcome after, (122) 94
SCHICK test for immunity to diphtheria, (1) 1105, *1203, *1205, 1246—E, (69) 1359, (70) 1452
SCHISTOSOMA, snails as intermediate hosts of, (67) 783
SCHISTOSOMIASIS, Asiatic, spread of, (5) 860
SCHOLARSHIPS for Belgian students, 1347—C
in medical education, 597—E, (40) 616
SCHOOL: See also Colleges; Education, Medical; University
SCHOOL clinics, (145) 544
contagious eye diseases in Louisville, (62) 371
diphtheria prophylaxis in, 662—T
for crippled soldiers, (53) 1947, 2152
for mothers, 1010
high, reform in curriculum of, (95) 703
hygiene, American Association, meeting, 1925
inspection, country editor on, 1919—E
medical, abroad during war, 65
medical attendance at, 440—E
medical, classification of, *961
medical, endowed, 1851—E
medical, full-time clinical teachers in, fallacies in argument against, 1027—ab
medical inspection of, (24) 1358
medical inspection of, in Auburn, (75) 273
medical inspection of, in Canal Zone, 257
medical inspection of, in Connecticut, (70) 541
medical inspection of, in Edmonton, Alberta, (134) 276
medical inspection of rural, (131) 778
medical inspection of, scope of, with reference to New York state under mandatory law, (2) 1611
medical, minimum expense of maintenance of clinical department of, 1028—ab
medical, minimum expense of maintenance of first 2 years of, 1028—ab
medical, minimum requirements for admission to, 1420
national, for mutilated soldiers, 923
of medicine, Indiana University, (61) 695
open air, exhibit, at Panama-Pacific Exposition, (64) 1193
open air, medical inspection of, *731
SCHOOL, public, health director in, report of, (3) 1028
rural, and uncinariasis, 267—ab
sanitation, rural, report of committees on, 348—E
system, public, and physician, (96) 1529
tuberculous children and, (149) 380
SCHOOLCHILDREN: See Children, School
SCHOOLROOMS, organic matter in air in, (115) 705
SCIATIC nerve, resected and sutured, restoration of functions of, (102) 2027
nerves, resection of, eosinophilia consecutive to, (58) 1198
nerves, traumatic interruption of, *1240
pain and low back-ache, anatomic explanation of, (86) 371
SCIATICA a symptom of appendicitis, *579
autogenous vaccines in, *238
epidural injection of salt solution in, (97) 696
extension treatment of, (77) 1884
salt solution in, perineural infiltration with, (96) 696
treatment of, (102) 543
unusual case, (97) 1453
SCIENCE and church in 15th century, (128) 1039
influence of, on modern medicine, (15) 620
medical, original contributions to, request for titles of, 265
SCIENTIFIC Temperance Federation moves, 1858
SCLERA puncture for expulsive subchoroidal hemorrhage following sclerostomy, (95) 858
puncture for postoperative separation of choroid, (95) 858
SCLERODERMA in new-born infant, (92) 1690
with contractions, 77—ab
SCLEROSIS, brain and spinal cord, multiple, eye symptoms in, (105) 1118
multiple, case of, (83) 469
multiple, syphilitic, (94) 1685
multiple, with poliomyelitis, (79) 549
of retinal circulation, complete, (35) 939
SCLEROSTOMY, expulsive subchoroidal hemorrhage following, scleral puncture for, (95) 858
histologic findings after, (7) 1357
SCLEROTICS, blue, with brittle bones in children, (2) 1105
SCOBITOST, unfavorable experience with, (86) 1457
SCOLIOSIS, causes and treatment, *26
classification of, aid to treatment, (125) 706
congenital, *305
neglected, (94) 1109
paralytic, bone-grafting in, (7) 81
SCOPOLAMIN and morphin, *588
and morphin anesthesia at Long Island College Hospital, study of, (1) 1874
and morphin anesthesia in labor, (96, 118) 85, (2) 176, (87) 371, 459—C, (28) 540, (76, 88, 93) 542, (57) 857, (49) 1031, (53) 1192, (13) 1272, (53) 1273, (29) 1527, (59) 1528, (91, 97) 1616, *1723, *1728, (92) 1796, (73) 1802, (1, 2) 1874
and morphin anesthesia in labor, are women compelling physicians to use, 1933—ab
and morphin anesthesia in labor in moving pictures, 1251—E
and morphin anesthesia in labor, lecture and picture of, 2157—C
and morphin as preliminary to local anesthetics, (113) 85, (148) 1944
in nose and throat operations, (82) 1274, (71) 1876
literature on, 1868
pharmacology of, (125) 1275
SCORBUTUS infantile, (50) 1947
infantile, and pasteurized milk, 835—E
infantile experimentally produced in fetal and new-born guinea-pigs, (12) 2168
infantile, hematoma of lower eyelid symptom of, (3) 1195
SCOTOMA, homonimous crescentic, with ethmoiditis and tooth root abscesses, (99) 1529
of migraine, (21) 1880
persistent ring, following gazing at furnace fire, (34) 939

V. 19

SCREEN, office, convenient, *1316
SCROFULA: See Tuberculosis, Lymph Nodes
SCROTUM, fistula, fecal, right, (20) 861
  injury to, (15) 698
SCURVY: See Scorbutus
SEA urchin, egg of, rate of oxidations in, effect of weak and strong bases on, (21) 2096
SEASIDE resorts, winter, climate of, (73) 186
SECOND sight, causes of, (152) 1944
SECRECY, professional, 1088
  professional, from medicolegal standpoint, (79) 1949
  professional, law and society reports, (83) 284
SECRETIN and capacity to utilize sugar, 1076—E
SECRETION, gastric juice, in man, (15) 1526
  internal, (142) 276
  internal, and psychoses, (147) 380, (23) 1112
  internal, and rachitis, (110) 93
  internal, and status lymphaticus, (62) 783
  internal disturbance in, in dysentery, (43) 1457
  internal, during pregnancy, (150) 380
  internal, glands of, (72) 371
  internal, none of uterus mucosa demonstrated, (135) 552
  internal, of alimentary canal, (18) 1112
  internal, theory of, (26) 546, (15) 1112
  milk, injections of pituitrin and, (9) 856
  of glands of skin, bacteriologic importance of, (66) 91
  pancreas, defective, and infantilism, (17) 2022
  pancreas, recent studies in, 1872—ab
  pancreas, with abnormal stomach secretion, (124) 1039
  salivary, effect of gastric conditions on, 1871—ab
  salivary, of commoner blood-sucking insects and ticks, (24) 621
  salivary, threshold stimulus of cervical sympathetic nerve in relation to vasodilatation, vasoconstriction and, (19) 1794
  stomach, action of bitter tonics on, in man and dog, *15, 58—E
  stomach motility and, influence of operative treatment of ulcer of stomach and duodenum on, 1103—ab
  suprarenal, action of strophanthin on, (31) 540
SECRETOGEN, 1518—P
SECTION of Spine Nerve Roots: See Rhizotomy
SEDOROL, Raches, refused recognition by Council, 71—P
SEELIG-GOULD method of testing antiseptic solutions, efficiency of, (155) 180
SELENOMONAS in cecum of rodent, (121) 1202
SELLA TURCICA, roentgenography of, and disease of hypophysis, (130) 94
SEMILUNAR bone, dislocation of, (125) 470
SEMINAL vesicles, drainage of, (68) 858
  vesicles, surgery of, (82) 618
SENILITY: See Age, Old
SENSORY nerves and inflammation, (48) 617
  threshold for Faradic stimulation in psycopathic subjects, variations in, (47) 83
  threshold, influence of drugs on, (78) 1193
SENTENCES, long, tendency to write, 2086—C
SEPSIS: See Septicemia
SEPTICEMIA and kidney complications in typhoid, (137) 552
  bacillus mucosus capsulatus, in infants, (59) 1273
  general, in ulcerating sinusitis, spontaneous rupture of lateral sinus with, (136) 778
  Puerperal: See Puerperal Infection
  treatment of, (95) 1690
  tuberculous empyema and, with tuberculosis of lung and intestine, (20) 2022
  vaccines in, (38) 1946
SEPTUM: See Nose, Septum
SERBIA, appalling conditions in, 1860, 2080
  epidemics in, 1435
  sanitary commission for, reenforcement for, 1860
  typhus in, 1329—E, 1337, 1435, 1436
SEROBACTERINS, 909
SERODIAGNOSIS, Abderhalden, and defective mental and physical states, 2014—ab
  Abderhalden, and disease of liver, 81—ab
  Abderhalden, basis of, (16) 780
  Abderhalden, digestion of liver tissue in, applied to alcoholics, (94) 948
  Abderhalden, mechanism of, (62, 63) 1108
  Abderhalden, negative, injury of head with oncoming epilepsy, (90) 1109
  Abderhalden, present status of, *1898
  Abderhalden, rationale of Wassermann reaction and, (20) 699
  Abderhalden, specificity of, *735
  Abderhalden, with normal and pathologic human serums, (11) 2017
  Abderhalden, year's work with, (13) 1029
  cancer, (165) 182, (87) 188, (59) 282, (66) 283
  disturbances from loss of balance in ductless gland system, (73) 1884
  factors in, (105) 1624
  gonococci, specific and nonspecific antigens in, (44) 939
  gonorrhea, (30) 177, (91) 542, (23, 64) 1258
  gonorrheal iritis as manifestation of old latent gonococcemia, treatment by bacterins, (109) 469
  hydrophobia, (17) 1106
  optic method, (55) 2104
  pregnancy, (74) 283, (153), 544, (58) 1031, (41) 1451, (96) 2027
  pregnancy and gynecologic disease, (103) 377
  protective ferments in, (81) 2025
  psychiatry, Abderhalden, (8) 947, (131) 1039, (112) 2027
  rhinitis, acute, (42) 2097
  skin diseases, (58) 1801
  skin diseases, parasitic, *800
  smallpox, (60) 186, (120) 2028
  syphilis, (6) 1797, (48) 2103
  syphilis, improved technic, (84) 1623
  syphilis, new, (129) 778
  syphilis, with cholesterin antigens, (85) 1615
  tuberculosis, (136) 867
  typhoid, (110) 2028
  various diseases, (109) 285
  whooping cough, (74) 371, (36) 2097
  with Besredka's tuberculin and occurrence of tuberculosis among syphilitics as diagnosed by this test, (27) 272
  wounds, (25) 2101
SEROLOGY, statistical study of (91) 1685
SEROSITIS, multiple, 2 cases, 1102—ab
SEROTHERAPY: See also Autoserotherapy
SEROTHERAPY, autogenous, in infectious diseases, (93) 1280
  bacillary dysentery, (124) 1692
  disturbances from loss of balance in ductless gland system, (73) 1884
  epidemic cerebrospinal meningitis, (122) 619, (113) 626
  erysipelas, 1868
  hyperthyroidism, *413
  in gynecology and obstetrics, (31) 781
  lobar pneumonia, and biologic classification of pneumococci, (87) 1685
  scarlet fever, (50) 1113, (69) 1620
  tetanus combined with, colloidal iodin, (23) 1196
  tetanus, plus narcotics, (117) 551
  tetanus, recovery, (101) 550
  tuberculosis, (118) 372
  typhoid, (21) 1455, (115) 1460
  urticaria, *737
SERUM, agglutinating power of, of person inoculated against typhoid, (11) 1617
  agglutinating properties of, in dysenteriform disease, (85) 1280
SERUM, albumin and glutin, precipitation of, by alkaloidal reagents, (70) 695, (32) 1451
  and vaccines, (48) 541, (124) 950
  anticolon bacillus vaccine and, in appendicitis, (9) 544
  antidiphtheric horse, specific precipitin in blood injected with, (78) 775
  antidysenteric, rapid production of, (71) 1795
  antimeningitis, Flexner's, in epidemic cerebrospinal meningitis, (7) 1683
  antimeningococcus, and autogenous vaccine in cerebrospinal meningitis, (12) 943
  antitetanus and chloral in tetanus, (42) 1277
  antitetanus, and tetanus, *1552
  antitetanus, Behring's, (74) 947
  antitetanus, preventive injections of, 355
  antitetanus, subcutaneous injections of, in tetanus, 3 cases cured, (9) 1111
  antitetanus, successful, 1594
  antitetanus, symptoms of intoxication after prophylactic injection of, (76) 549
  antitrypsin titer of, diagnostic significance of, (107) 1201
  blood, ferment activity of, in infectious diseases, (44) 2097
  chicken sarcoma, chemical studies of, 1525—ab
  concentration of, as studied with refractometer, laws regulating, (66) 1109
  cytotoxic, in exophthalmic goiter, (73) 1884
  goat, in inoperable cancer, (3) 698
  hen, turkey, duck, and goose, comparison of, with respect to contents of various proteins, (68) 695
  horse, in hemophilia, (59) 1192
  horse, normal, therapeutic action of, (10) 1033
  horse, parenteral administration of, in horse asthma, (34) 1941
  horse, to arrest hemorrhage, (42) 622
  human, natural hemolysins in, (40) 2097
  human, normal and pathologic, Abderhaiden reaction with, (77) 1360
  inactivation of, apparatus for, *584
  influence of, on trypanosomes, (58) 862, (64) 1108
  intraspinal injections of, with and without preservatives, functional effect of, (34) 369
  normal and pathologic human, Abderhalden serodiagnosis with, (11) 2017
  pigeon, rooster, and guinea fowl with respect to content of various proteins in normal and fasting condition, (69) 695
  polyvalent, direct application of, to wounds, (36) 1277
  proteases and mechanism of Abderhalden serodiagnosis, (63) 1108
  proteins, blood relationship of animals as displayed in composition of, (68, 69) 695
  Salvarsanized: See Salvarsanized Serum
  sickness, induced antianaphylaxis with, (51) 1535
  specific, of convalescents, in infectious diseases, 1915—E
  syphilitic, agglutination by, (54) 1456
  syphilitic, deviation of complement in, (67) 549
SERVIA-TURK war, surgical experiences in, (65) 91
SETON treatment in path of bullet passing through limb, (31) 861
SEWAGE disposal, recent developments in, (121) 1110
  saltpeter method for determining strength of, practical application of, (23) 1875
  treatment of, by activated sludge, 1902—E
SEX, cystic tumors, common to both male and female, 1680—MI
  of fetus, determination of, (104) 376
  of insane, 444—E
  teachings, (54) 1192, (123) 1453
  topics, (9) 698
SEXUAL glands, genito-dystrophic xeroderma due to deficient functioning of, (101) 1117
SEXUAL impotence, (117) 697
  problems of war, 452
SEXUALITY, conception of, assumed by Freudian school, (56) 1274
SHAW, Bernard, Cabot and medical profession, 762—C
SHELL bursting 6 to 12 feet from soldier, hemiplegia following air concussion from, (47) 185
  electromagnet for extraction of fragments of, (102) 1281
  explosions, indirect effects of, (83) 1116
  explosions, micro-organic changes from, (130) 951
  fragments and bullets, localization of, (2) 471
  gases from exploding, intoxication from, (57) 1801
  scrap of, extracted from interior of heart, (27) 2101
  shock, study of, (36) 944
SHELLFISH, infected, prohibition of sale of, 1088
SHIELD, face, for nose and throat work, (68) 618
  for prostatic examinations, *1909
  protective, Holmes nasopharyngoscope, (111) 1109
SHOCK, (51) 1942
  anoci-association and anesthesia, (127) 620
  artery blocking vs. nerve blocking in prevention of, (134) 1944
  colloidal solutions in, intravenous injection of, *721
  nervous and mental, (4) 2022
  nervous, from shell explosions, (130) 951
  operation without, (54) 857
  pathogenesis of, importance of suprarenal capsule in, (117) 866
  postoperative, causes and treatment, (84) 858
  present status of our knowledge of, (124) 276
  shell study of, (36) 944
  surgical, vascular tone and distribution of blood in, (17) 1527
  vasomotor center in, 1588—E
SHOULDER, arthrodesis of, for deltoid paralysis, (134) 1202
  disability, method of applying abduction in, (67) 542
  dislocation of, habitual, anatomic results of operative treatment, (87) 1199
  dislocation of, long standing, open operation in, (129) 1275
  high, operation for, (64) 1036
  joints, wounds of, after-treatment, (120) 551
  pain in, and paranasal sinuses, (19) 938
  shell wound of left, (39) 2022
SIGMOID adhesion, importance of, (103) 1685
  colon, diseases of rectum and, diagnostic methods in, (120) 1194
  colon, strictures of, extraperitoneal operation in, (66) 2099
  flexure in health and disease, (33) 821
  stricture of, new operation for, (120) 859
  surgery of, (93) 1360
  volvulus, intestinal obstruction due to, (6), in child, *1744
SIGMOIDITIS and diverticulitis, 11 cases, (38) 700
SIGNAL-MAGNET controller, (72) 1942
SILK ligaments at ankle in acute anterior poliomyelitis, (4) 693
SILVER, colloidal, with lecithin in malignant tumors, (79) 696
  collosols of mercury and, bactericidal action of, (8, 9) 620
  foil in surgery, advantages of, (133) 1692
SINUS cavernous, surgery of, (28) 279
  classic, extracts and thoughts from, (108) 85
  disease, chronic, obscure, eye symptoms in diagnosis of, (28) 1273
  frontal, external operation on, (60) 2015
  frontal, suppuration of, 171—ab
  frontal, suppuration of, perinasal operation for, (42) 1035, (3) 1879
  infections, (56) 178
  lateral, arresting circulation in, in operations on neck and base of skull, (46) 2024
  lateral, septic invasion of, extent of operation in, (150) 180, (20) 1196

SINUS, lateral, spontaneous rupture with general septicemia in ulcerating sinusitis, (136) 778
lateral, suppuration in, cured by ligation and curetting, (112) 1367
lateral, thrombosis of, (167) 87, (117) 1275
maxillary, preturbinal operation on, (107) 85
nasal accessory, aspergillosis of, (22) 1687
nasal accessory, conservative treatment of suppuration of, (58) 541
nasal accessory, diseases of, (18) 82
nasal accessory, diseases of middle ear and, diagnosis of intracranial complications in, (35) 467, (70) 1108
nasal accessory, diseases of nose, throat, ear and, orbital and intracranial complications in, (27) 857
nasal accessory, infection, and general disease, (113) 1685
nasal accessory infections of nose, throat and, (124) 1453
nasal accessory, inflammation of, as complicating scarlet fever, (71) 91
nasal accessory, inflammatory affections of nasal mucosa and, in children, (30) 1358
nasal accessory, latent empyemata of, (30) 943
nasal accessory, new non-operative treatment for disease of, (87) 1360
nasal accessory, roentgenoscopy of, (138) 1879, (2) 2022
nasal and accessory, trifacial neuralgia from disease of, (115) 1274
nasal, in infants, disease of, (51) 1113
nasal, wounds of, in war, (43) 1881
paranasal, and pain in face, head, neck and shoulders, (19) 938
pilonidal, (126) 1453
pilonidal, abscess originating in, (102) 85
postsacral, 2158
sigmoid thrombosis, extensive, with fulminating otitis media and mastoiditis, (86) 1632
sphenoid, anatomic and clinical relations of, to cavernous sinus and 3d, 4th, 5th, 6th and vidian nerves, (27) 1273
sphenoid, and cerebrospinal meningitis, (13) 2169
sphenoid, exploratory opening of, (75) 1274
sphenoid, roentgenoscopy of, (20) 466
suppuration, infective lymphoid growths of laryngopharynx secondary to, *576
thrombosis, atypical, (71) 1685
thrombosis of otitic origin and brain abscess, ocular symptoms of, (21) 857
thrombosis, septic, double mastoiditis with, (119) 942
thrombosis, unusual case of, *983
transverse, anatomy of, (99) 188
SINUSITIS, (112) 1685
acute chronic, of nasal and pharyngeal origin, (76) 469
frontal, abscess of frontal lobe of brain secondary to, (108) 1616
frontal and maxillary, case of, (133) 860
frontal, Killian operation and, 2 cases, (120) 1453
sphenoidal, bilateral, optic neuritis due to, (12) 620
ulcerating, general septicemia in, spontaneous rupture of lateral sinus with, (136) 778
SIPHON device for draining deep wounds, (99) 1280
SKIN, bacteriologic investigation of, (16) 2109
boric acid in diseases of, *883
Cancer: See also Epithelioma
cancer, (121) 1455
cancer, prickle-cell and basal-cell, *958
diffuse idiopathic atrophy of, differential diagnosis between acrodermatitis chronica atrophicans and, (34) 1107
diphtheria of, (109) 626
diseases among soldiers in field, (130) 551, (75, 85) 1949
diseases, autoserotherapy of, *1226, 1266
diseases, cellular elements of blood in, (58) 775
SKIN diseases in pregnancy, (69) 541
diseases, radiotherapy of, (63) 282
diseases, serodiagnosis in parasitic, *800
flaps, pedunculated, to cover stump end, (131) 2028
functions of, 2142—E
grafting by Thiersch's method, local anesthesia in, (4) 1453
grafts in ulcer, 465—ab, *558
hormones in diseases of, (22) 1112
larvae that penetrate human, (113) 1367
malignant disease of, treatment of, (5) 1195
mycosis of, from wearing woolen underclothes, (39) 184
necrosis, multiple patches of, after measles, (88) 1117
pandemic of, nerve end bulbs in, (85) 376
pigment content of, and nervous system, (65) 782
reaction in syphilis, (110) 1538
reaction, luetin, in syphilis in adults and children, (139) 552
reaction, specificity of placental proteins in, (3) 176
reaction, tuberculin, in children of non-tuberculous parentage, (8) 773
reaction, tuberculin, in diagnosis of tuberculosis, (114) 626
reaction, tuberculin, in erythema, intense, (39) 2172
reaction, tuberculin, positive, in children, (45) 605
reaction, tuberculin, sensitization index with, (33) 90
reaction, tuberculin, with human and with bovine tuberculin, (14) 379
sarcomas of, generalized, non-pigmented, *1901
secretion of glands of, bacteriologic importance of, (66) 91
sterilization of, with tincture of iodin, (4) 2109
sterilizing, substitutes for iodin in, (73) 1199
suture, (167) 180
test in typhoid, (20) 774
test, specific, in infectious diseases, new uses of, (11) 938
ultraviolet rays and regeneration of pigment apparatus in, of Tritons, (70) 1279
wounds, oiled silk for burns and, (25) 1456
SKULL: See also Brain
SKULL, celluloid plate to close gap in, not durable, (128) 2028
fracture, (41) 857, (109) 1685
fracture and drunks, 1995—E
fracture at base of, bilateral atrophy of optic nerve after, (109) 1538
fracture at base of, with escape of cerebrospinal fluid from ear, (10) 1449
fracture at base of, with motor aphasia, *1233
fracture, compound comminuted, (141) 620
operations on neck and base of, arresting circulating in lateral sinus in, (46) 2024
osteoplastic resection of, in decompression operations of brain, (22) 545
percussion of, clinical value of, (43) 1192
steeple, saving vision with, (69) 1948
sutures in, premature obliteration of, (3) 2016
topography of, improved arrangement for imaginary planes for, (49) 862
wounds, (57) 475, (91) 549, (118) 551, (84) 1690, (113) 2028, (62) 2104
wounds, grazing, (71) 1199
wounds, grazing, operative treatment, (64) 2025
wounds, tangent, (64) 186, (90) 948
wounds, treatment of, 1862
SLEEP as habit, 300—ab
automatic movements during, (52) 1113
continuous, for 3½ years after injury to brain, recovery, (77) 91
phenomena of, 497—ab
SLEEPING SICKNESS: See Trypanosomiasis
SLIDES, formula for cleaning, 168—C
SLUDER tonsil operation, (65) 618
SMALLPOX, (91) 1459
aluminum acetate in, (66) 2104
among six nations, 601
SMALLPOX, death from, hospital not liable for, 1934—Ml
diagnosis and sanitary control, (177) 87
diagnosis and treatment, (96) 550
diagnosis of chickenpox and, 1181—C
epidemic, (36) 82
epidemic in Australia, (160) 1944
experiences with varicella and, 1180—C
Finsen red light in, 73
in Michigan, correct attitude toward, 1185—ab
in Vera Cruz, 353
mouth and throat phenomena during prodrome of, 1681—ab
prophylaxis of, (73) 91
serodiagnosis of, (60) 186, (93) 703, (120) 2028
vaccination at Prague, (73) 1366
vaccination, lay views on, 1588—E
SMITH intracapsular operation for cataract, (65) 84, (132) 697, (25) 1276, (15) 1940
SMITH, THEOBALD, memorial for, 257
SMOKE complicating carbonic oxid poisoning in colliery disasters, (13) 1362
SMOKER'S patches in mouth, (24) 2171
SMOOTH muscles and heat production, 349—E
SNAKES, venomous, treatment of bites of, (8) 1616
SNOW blindness, (103) 625
SOCIAL EVIL: See also Gonorrhea; Prostitution; Syphilis; Venereal Diseases
SOCIAL hygiene, new journal on, 252—E
hygiene pamphlet, prize for, 1171
insurance and medical profession, *381, (146) 620
service and administration in tuberculosis dispensary, (46) 2019
service, hospital, (63) 1876
service in Toronto hospitals, 1354—ab
service nurse, (67) 1193
service, psychopathic, economic side of, (42) 82
SOCIALIZATION of medicine, (145, 147) 620
SOCIETY, advantages of, (66) 1528
for aiding wounded, activity of, 451
for facilitating communication between wounded and their families, 163
for prevention of abuse in animal experimentation, letter by, 1505—E
medical, (48) 371
medical, and physician, (50) 1031
medical, county, (151) 1879
medical, newspaper reports of, 1448—ab
medical, value of, (111) 179
medical, work in England and war, 1257
of American Bacteriologists meeting of, 448, 1086
reports, professional secrecy and law, (83) 284
scientific, and medical periodical, (77) 371
SODIUM bicarbonate, edema from large doses of, *328
bicarbonate, effect of, on excretion of chlorids and of milk sugar injected intravenously, (45) 90
chlorid, poisoning from, 1932
chlorid retention, edema and acidosis, *325
citrate in hypertonic salt solution, abdominal adhesions prevented with, (56) 371
citrate in transfusion of blood, *425
fluorid poisoning, *1985
hydroxid, decinormal solution, 850
iodoxybenzoate, influence of, on immune reactions, (32) 2096
nucleinate and dementia praecox, (18) 856
salicylate, effect of, on experimental arthritis, (25) 1612
sulphocyanate in tuberculosis, action of, (74) 775
tellurite test for visability of bacillus tuberculosis, (75) 776
SOIL, diseases of, 1503—E
formation and lack of calcium, relation of lung tuberculosis to, (119) 85
sulfofying power of, determination of, (16) 2096
SOLAR PLEXUS, hyperesthesia of, diagnostic value of, and relation to gastropaths, (35) 1107
SOLAR PLEXUS, stretching of, in gastric crises, (71, 72) 375
SOLDIERS: See also Army; War; Wounded; Wounds
SOLDIERS, alcohol among, 65
appendicitis among, (107) 2027
arteriovenous aneurysm among, 1513
Austria and Hungary forbid offering of liquor to, on way to or from front, 1257
blinded, aid for, 161, 922, 1861
British, health of, at home, 1595
British, health of, in France, 1595
British, morbidity and mortality among, 921
British, pyosis corletti in, (13) 1617
British, sanitary conditions of, comparative absence of typhoid, 677
cardiovascular disease among, (110) 551
cataract among, postponing operation for, (37) 1277
cataract, traumatic, of wounded, 1089
cerebrospinal meningitis among, 679, (2) 860
certificates as to invalidism among, (101) 704
clothes for, gifts, 755
convalescent, systematic regulated gymnasium work for, (51) 2103
crippled, 923
crippled, training schools for, 923, 1515, (53) 1947
crippling among, measures to prevent and reduce, (64) 1535
dementia praecox in, developing from shock of being called to colors, (60) 701
diagnosis of death in, (87) 1537
diet of, at front, (60) 2103
dysentery among, (66) 1115, (42) 1456
ear, injury, internal, (45) 2103
ears, injuries affecting, (53) 185
emergency medicine for, (133) 1879
epidemic diseases among, 920
eye injuries in, (52) 185, (81) 703
food ration in war, 843
fractures in, mechanical treatment of compound and suppurating, (7) 620
frozen feet among, 843
head injuries in, treatment of, (1) 1453
health of, 260, 356, 449
heart disturbances in, 163—ab, 524, (45) 622, (55) 700, (120) 950, (57) 1365, (77) 1366, 1513, (56) 1535, (75) 1536, (65) 1620, (76) 1621, (61) 1689, (48) 1882
hemiplegia following air concussion from shell bursting 6 to 12 feet from, (47) 185
hemorrhage among, arrest of, on field, (36) 1534
hospital for, temporary clearing, at front, surgical notes from, (1) 698
hygiene among, (137) 1693, (59) 2103
hygiene and comfort of, in trenches, (83) 624
hysteria among, at front, (68) 1536
hysteria, hysterotraumatism and simulation among, (54) 1688
incontinence of urine in, nervous, (18) 1455
injured in war, care of, 1341
insanity and, 67
internal diseases among, treatment of, in field, (76) 1366
intestinales or knitted scarfs for, 353
mufflers for, (28) 184
nervous and mental disease among, 163, 259, (81) 549, 678, 2001
nervous system and, (71) 1949
neuroses and, 66, (27) 1533
night blindness among, (67) 1458
paralysis of vocal cords in, functional, (76) 1536
philanthropic care of, by insurance societies of nation and Berlin, 1438
polyneuritis following dysentery among, (94) 1690
prohibition of removal of bodies of, killed by enemy, 355
psychoneuroses among, (40) 1618, (53) 2024, (51) 1278
rest for marching, (44) 622
rheumatism among, (86) 376, (97) 1623
sanitary officer on duty with, (82) 1037

SOLDIERS, skin and venereal diseases among, (130) 551, (75, 85) 1949
teeth of, (14) 277
trench foot among, (49) 1197, (17) 1532
trench foot, trophoneurotic changes main factor in, (22) 1455
tuberculous, at front, (8) 1195, (69, 70) **1536**, (8) 1686
tuberculous, discharge of, **1861**
tuberculous, treatment for, **2082**
typhoid among, **680**, (66) 1365,(50) **1688**, (63) 2104
typhoid among, at home, control of, **922**
typhoid among, diagnosis of, (54) **623**
typhoid among, prophylaxis and treatment of, (106) 1691
typhoid among, Swiss, guarding border, (38) 1112
typhoid and paratyphoid among, prophylaxis and treatment, (38) **546**
venereal disease and vermin among, prevention of, (48) 551
venereal disease in, (43) 90, (104) 93, (58) 862, (64) 863, (84) 1280, (60) **1620**, (75) **2026**, **2081**, (29) 2101, (31) **2172**
venereal disease in, treatment of, (80) **624**
vermin among, extermination of, (13) 860, (26) 861
vision in, requirement as to acuity of, (51) 1688
volunteer medical officer, is he, (102) 1943
warm underclothing for, **260**
water-bite among, in trenches, **1173**
water supply in villages entered by, (70) **1199**
wounded and sick, discharge of, **1515**
wounded, baths for, (7) 860
wounded, exchange of, **1089**
wounded, hospitality for relatives of, **677**
wounded, right to perform operations to remove physical disability of, (47) **1882**
wounded, specialist treatment for, organization of centers for, **1010**
wounded, trains for transportation of, **923**
wounded, transmission to their families of news of, **451**
SOMATIC characteristics of general paretics, (24) 1527
SOMNAMBULISM, (76) **2105**
SOUTH CAROLINA medical news, **159**, **521**, **753**, **1007**, **1170**, **1593** state board November report, **1183**
SOUTH DAKOTA medical news, **159**, **352**, **754**, **1924** state board January report, **931** state board July report, **533**
SOUTH Texas Medical Record follows Council, **1866**—P
SOUTHERN Medical Association Malaria Commission, report of, (146) 1194
Sociological Congress, meeting of, **754**, 1337, **1859**
Surgical and Gynecological Association, history of, (129) 1110
Surgical and Gynecological Association, meeting of, **160**
SOUTHEY'S tubes in dropsy, **459**
SOY bean, (79) 1366
SPA treatment of wounded, (32) 2171
SPANISH Academy of Medicine elects senator, **161**
SPARGANUM MANSONI first reported American case, (26) 939
infection with, **1789**—E
SPARTANBURG, South Carolina, enlightened support of local health service at, **253**—E
SPARTEIN, action of, (117) 276, (115) 1360
sulphate and Dr. Pettey, (93) 858
SPASMOPHILIA, **1443**
calcium in results of (77) **284**
electrical demonstration of, in initial convulsions in children, (89) 703
phosphorized cod liver oil and calcium phosphate in, (91) **703**
SPASMS after wounds of head, orthopedic treatment of, (115) **950**
continuous clonic, of left arm, (epilepsia continua) caused by tumor of brain, (13) 938
SPECIALIST as he appears to us, (116) **1110**
in medical corps of navy, advisability and practicability, (93) **1032**
SPECIALIST, services of, not liable for, **1270**—MI
SPECIFIC gravity of human body, (30) **1613**
SPECIMENS, eye, macroscopic, preserving in natural colors, (12) 1357
preservation of, ***1580**
SPECTACLES, admission of men with, into army, (6) 2169
frame for tennis players and farmers, (101) 858
lens, anastigmatic, **654**—ab
reading without, when power of accommodation is defective, (34) **861**
SPECULUM, eye, green elevating, (108) 1453
eye, new, (97) 858
matricis, (22) **1034**
mouth, ***1580**
vaginal wire, new, (4) **466**
SPEECH Defects: See also Stammering and Stuttering
SPEECH defects of voice and, elimination of, (61) 83, (63) 541
elementary sounds, (102) 1878
SPERMATIC CORD, spasmodic pain in testicles and, (115) 1039
SPHENOID sinus, anatomic and clinical relations of, to cavernous sinus and 3d, 4th, 5th 6th and vidian nerves, (27) 1273
sinus and cerebrospinal meningitis, (13) **2165**
sinus, exploratory opening of, (75) 1274
sinus, roentgenoscopy of, (20) 1466
SPHENOPALATINE ganglion, injection of, in diseases of nose, (60) 1795
SPHYGMOBOLOMETRY, (41) **1800**
SPHYGMOMANOMETER, alternating pulse determined by, ***2061**
cuff in intravenous injections, **2007**—C
findings, apparatus to control, (115) 866
mercurial, pocket, ***1755**
portable, (82) **284**
pulsus alternans detected by, ***739**
readings from clinical standpoint, (88) 179
records of arterial pressure, inversion of respiratory waves in, (7) **1190**
SPIDER poison, (53) 1615
SPINA BIFIDA, (31) **1030**, (62) 1032
operative treatment of encephalocele and, technic for, (68) 623
tibial transplant, (66) **2020**
with myelomeningocele, removal of myelomeningocele and closure of cleft by transplantation of bone, (38) 370
SPINAL CORD, anemic changes in, (79) 469, (2) 1797
angioma of, extramedullary, (51) 1192
decubitus in traumatisms of, caused by wounds of war, prevention of, **2082**
destruction of, by molecular vibration, (140) 1261
diseases of, pain and sensory disturbances in, surgical treatment, (8) 1105
gunshot wound of brain and, (101) 949
gunshot wound of, indirect, (93) 1950
in isolated atrophy of small muscles of hands, (55) **2098**
injury to, damages for, **1680**—MI
Puncture: See Rachicentesis
sarcomatosis of brain and, (164) 87
sclerosis of brain and, multiple, eye symptoms of, (105) **1118**
surgery of, (115) 1033
tumor, (156) **626**
tumor, aneurysm of aorta simulating, (134) 626
tumor, early diagnosis of, (12) 614
tumor, recovery after removal, (143) **379**
wounds of brain and, in war, (63) 1278
wounds of, early cystostomy in, advantages of, (102) **1038**
wounds of, in war, (88) **948**, (101, 105) **1039**, (123) 2028, (37) 2102
wounds of, in war, laminectomy for, (33) **1533**
wounds of, in war, retention of urine with, treatment of, (115) 1691
wounds of lower end, (107) 1039
wounds of, operative treatment of, (84) **624**
SPINE, ankylosis of, chronic, curability of, (97) **285**
disease, pain and tenderness in, surgical treatment, 537—ab
fracture of pelvis and, (170) 87
hyperflexion of, with multiple spinous process fractures, (43) 1451
Lateral Curvature of: See Scoliosis
lumbar, new physical sign in lesions of, (12) **81**
operative fixation of, 21 cases, (98) **1804**
osteomyelitis, acute, after wound in war, (45) **1882**
osteomyelitis, primary acute and subacute purulent, (82) **1199**
rib transplantation in diseases of, (13) 943
syphilis of cranium and, (73) 542
tuberculosis of, bone transplantation for, Albee method, ***400**
tuberculosis of, bone transplantation for, Hibbs and Albee operations for, relative merits of, (44) 1941
typhoid, 4 cases, (27) 1450
Vertebra: See Vertebra
wound of, by shrapnel, low temperature with, (12) 860
SPIROCHAETA PALLIDA: See Treponema Pallidum
SPIROCHETES, filterability and biology of, (24) 933
granule phase of, (7) 372
hyos, pure culture of, inoculation experiment with, (76) 775
infection of ulcers with, in China, (61) 1358
SPIROCHETOSIS, bronchial, (27) 1363
SPLANCHNOPTOSIS, (12) 368, (72) 1685
corsets and sacro-iliac strain, (40) 1614
recognition and treatment, (69) 2099
SPLEEN and thymus in rats, (59) 1619
enlarged, with anemia, splenectomy for, (15) 779
floating, (129) 1944
floating, torsion of pedicle of, (139) 379
function of, in experimental infection of albino mice with bacillus tuberculosis, (35) 370
lymphatic leukemia in acute infection after removal of, (43) **616**
production of bile pigment in, (107) 1624
rupture of, isolated, traumatic, (48) 374
rupture of, traumatic, operation with recovery, (153) 87
surgery of, case reports, ***1571**
syphilitic disturbance of liver and, (152) **1694**
tuberculosis, (33) 177
SPLENECTOMY, (83) 1360, (122) 1797
and blood picture, (34) 279
for enlarged spleen with anemia, (15) 779
for pernicious anemia, (94) **285**, (104) 696, ***796**
history of, (116) 697
in congenital hemolytic jaundice, metabolism studies before and after, **2105**—ab
nuclear particles in erythrocytes following, (21) **1612**
pancreas secretion increases after, (92) 1537
successful, 4 cases, (88) **784**
unusual pathologic findings, (122) 543
SPLENOMEGALY, anemia and infantilism, case of, (155) 627
congenital hemolytic jaundice with, (42) **939**
Fse, **2156**—P
diseases associated with, differentiation of, (101) **1616**
Gaucher, diagnosed by spleen puncture before operation, ***1907**
in children, (87) **1117**
in south China, (2) 942
primary, or splenic anemia, (38) **1196**
with anemia, (81) **1199**
SPLINT, adjustable, for fractures about elbow joint, ***1755**
aluminum, adjustable, (30) 699
aluminum skeleton, in compound fractures, (7) 2022
Angelmann, **1520**
extension, for fracture of arm, (89) **284**
extension, for fractures of humerus, (19) 2171
SPLINT for fracture of metacarpals, ***586**
in radial paralysis, (25) 2171
lateral pressure, for fractured neck of femur, ***239**
lead, for fractures, (36) **1198**
metal, flexible, adaptable to any angle of knee or elbow, (55) 83
question of, (71) 863, (99) 1038
simple, for fractures of upper extremity, (16) 698
transportable extension, (72) 1199
treatment of club-foot, (67) **1036**
wire, for congenital club-foot, (125) 858
SPONDYLITIS, tuberculous, bone transplantation, modified technic for, (67) 623
typhoid, (100) **2027**
SPONDYLOLISTHESIS, recurrent, with paralysis, bone-splint transplantation for, ***24**
SPOROTHRIX resembling sporothrix beurmanni, (54) 617
SPOROTRICHA differentiated by fermentation of carbohydrates, (37) 2096
SPOROTRICHOSIS, case of, (152) 1195
cutaneous, (116) 1453
of eye, chronic, (19) 82
SPREADERS, spring, in treatment of abscesses, (63) **946**
SPRINGS, thermal, American, therapeutic uses, (95) 1736
SPRUE, emetin hydrochlorid in, ***53**
monilia in, ***810**, ***1893**
SPUTUM, albumin in, as diagnostic aid, ***574**
albumin reaction in, (127) **1039**
elastic tissue in, test for, (162) 627
isolation and cultivation of tubercle bacilli direct from feces and, new method, (33) **369**
reports, need for detailed, ***427**
swallowing, factor in anal fistula, (43) **1688**
tuberculous, pneumococci in, types of, (64) 775
SQUINT: See Strabismus
SQUIRREL campaign in California, unexpected magnitude of savines from, **914**—E
STAINS, analysis of flours by, (50) **1278**
bacillus tuberculosis, electric heater for, ***823**
blood and lymph vessel tissues, (56) 473
diphtheria bacilli for microscopic examination, (124) 1368
malarial parasites and blood smears, ***2101**
Ponder's, for diphtheria, modification of, (19) 1450
toxic action of, on protozoa, (116) 1367
treponema pallidum, various, (140) **379**
vital, and electric tests in examining nerves wounded in war, (50) **1197**
vital, of blood, 929
vital, of granules of red blood corpuscles, clinical value of, (150) 552
vital, of mitochondria with janus green and diethylsafranin in human blood cells, (84) 376
vital, of red blood corpuscles, (157) 627
STAMMERING as psychoneurosis, (58) 1108
STAND for diagnosis of pes planus, ***1755**
STANDARD Radium Compress, **1325**
Radium earth, **1325**
Radium Solution for Bathing, **1325**
Radium Solution for Drinking, **1325**
Radium Solution for Intravenous Use, **2156**—P
STAPHYLOCOCCUS albus in udder of healthy cow cause of milk poisoning, (112) **1529**
sepsis with aplastic anemia following gonorrhea, (78) **549**
STARCH agar culture medium, (35) **2097**
raw, in diabetes mellitus, (110) **942**
STARVATION and obesity, with reference to acidosis, (26) **2096**
blood in, **1081**—E
STATE board examinations, statistics of, **1423**—E
board, graduates examined by, during 1914, **1410**
board, graduates of 1910 to 1914, inclusive, examined by, during 1914, **1406**

STATE board of medical examiners, work of, (155) 276
board, physicians examined by, during 1914, **1402**
board statistics for 1914, **1401**
care of insane, perils of, (11) 856
child welfare exhibits, **257**
sanatorium in tuberculosis problem, (46) 1273
STATISTICS, mortality, for 1913, 932—ab
value of, **398**—ab
vital, and information concerning communicable diseases, importance of collecting, **154**—E
vital, and sanitation, **2129**—ab
vital, collection of, in Ohio, new plan for, (140) 1944
vital, in Arizona, (14) 773
vital, in Kentucky, (65) 371
vital, in Prussia, 1913, **2003**
vital, of Madrid, **523**
STATUS EPILEPTICUS: See Epilepsy
STATUS LYMPHATICUS, (148) 620, (4) 1111
and derangement of internal secretion, (62) **783**
in dementia praecox, (32) **273**
STENO'S duct, operations on, new technic, (109) 2020
STEPHENS, Mrs., cure for gravel and stone in bladder, **444**—E
STERILITY, anastomosis of vas deferens to epididymis of opposite side for, (161) 180
experimental and clinical work on, (38) 1527
in marriages in general paralysis, data on, ***890**
in women, (109) 377
operative treatment, (43) **1197**
Roentgen-ray, production of, (106) 1796
STERILIZATION: See also Disinfection
STERILIZATION, (138) **544**
clothing, in field, improvised arrangements for, (49) **1882**
clothing, with fumes of carbon disulphid, (98) 1950
dressings, (36) **1618**
formaldehyd fumes, from evaporation of trioxymethylene, (36) 1881
laundry, **1487**—ab
skin, substitutes for iodin in, (73) 1199
skin, with tincture of iodin, **(4) 2169**
unfit, (97) 777
vaccine with ether, (64) **475**
water by calcium hypochlorite in field, (100) 1109
water, by chlorin, (10) 1945
water, emergency, (47) 2103
water, in field, (79) 1690
water, technic for emergency filtration and, (26) 2101
women, by extra-peritoneal displacement of fallopian tubes, improved technic for, (103) **1460**
women by Roentgen exposures, (42) **184**
wounds, (103) 550
wounds by gasoline followed by iodin, (41) 1618
STERILIZER, portable, for dressing, (22) 372
STERNUM, congenital lymphangioma over, (14) 698
slitting, to relieve pressure on lower respiratory passages, (59) **548**
STEVENS loses case against British Medical Association, **1994**—P
STILLING'S plates, examination of 500 cases with, (138) 697
STITCH for deep wounds, new stay, *1317, **1781**—C
STOELTZNER'S casein calcium milk in summer diarrheas of infants and children, (32) **82**
STOMACH, achylia, functional, of pancreas and, (120) **705**
activity and condition of nervous system, **749**—E
adhesion, intragastric, (131) 1361
atony, roentgenoscopy in gastrospasm and, (86) 941
atony, what is it? (88) 1109
bitters, ***15, 58**—E
Boas-Oppler bacillus in contents of, diagnostic importance of, (49) 1192
cancer, ***2031**
cancer and ulcer, occult hemorrhage with, (57) **1688**
cancer and ulcer of duodenum and, roentgenology in differentiating between, (8) 271
STOMACH, cancer and ulcer, relationship of, (2) **271**
cancer and ulcer, roentgenoscopy of duodenal ulcer and, (72) 617
cancer and ulcer simultaneous in, two cases, (73) 623
cancer, diagnosis and treatment, (94) **1943**
cancer, diagnostic worth of laboratory data in, (46) **774**
cancer, early diagnosis of, **(47)** 774, (48) 1192, **1788**—ab
cancer, familial, (35) **1534**
cancer, histogenesis of, (1) **1449**
cancer, identity of Boas-Oppler bacillus in, **1004**—E
cancer in boy of 9, removal of, (70) **1621**
cancer of pyloric end, radical operation for, (139) **180**
cancer, prognosis of, (82) 1032
cancer, roentgenoscopy of, (29) 177, (85) 947, (65) 1198
cancer, symptoms and signs, 712 cases, ***643**
cancer with bone marrow metastases and anemia, (19) 943
cancer with secondary cancer of bone, (12) 1617
chemistry of, with cholelithiasis, (59) **1689**
cicatricial displacement of, (61) 863
contents analysis, (7) **1879**
contents, chemical analysis of, in 100 cases of indigestion, (129) 2021
contents in infants, acidity in, (85) 92
contents in infants, free hydrochloric acid in, (97) 1367
contents, trypsin in, method for quantitative estimation of, (23) 2096
contraction of rabbit's, during hunger, (20) **694**
diaphragmatic hernia of omentum and, (106) **1109**
digestion, ***1737**
Dilatation of: See Gastrectasis
diseases of duodenum and, diagnosis and choice of operation in, **1525**—ab
disturbances, (50) 940, **(46)** 1107
disturbances, functional, (111) 1952
disturbances, organic obstruction of ileum as cause of, **1787**—ab
disturbances, study of, **(44)** 1031, (30) 1191
disturbances with chronic inflammation of omentum, (105) **1804**
disturbances with reference to other viscera, (130) 2021
enlargement of, early sign of ileus, (112) **378**
foreign bodies in, (59) 178
functional capacity of, study of, (74) **1037**
gastro-enterostomy with changes in, (128) 1530
gun-shot wounds of intestines and, operative treatment, (150) 697
hairball in, (35) 541
hairball in, removed by gastrotomy, **367**—ab
headaches due to disturbances of, (2) **1793**
hemangio-endothelio-blastoma of, **465**—ab, (128) **1361**
hour-glass, **937**—ab, (56) **1688**
hour-glass, following ulcer, forty-one cases, (41) **1277**
leiomyomas, (144) 2029
mercury excreted by mucous membrane of, ***2041**
movements of normal, (11) **1454**
mucosa of duodenum and, influence of removal of suprarenals and one-sided thyroidectomy on, (54) **2098**
mucosa, sensibility of, (18) **694, 1764**—E
mucous membrane of, transplantation of, (124) **470**
myomas of, (128) **867**
operations on bile tract and, liver in relation to, (70) 617
paralysis of intestines and, postoperative, (71) **623**
passage of fluid through body of, (1) 2022
passage of liquids from, effect of various procedures on, ***1052**
perforation of intestine and, by foreign bodies swallowed, (15) **1683**
physiology of, ***15**, (18, 20, **21) 694**, (15) **1526**, (23) **1794**
STOMACH, plastic operations on, (106) **859**
polypoid adenoma of, (133) 180
polyps in, multiple, (53) **548**
psychoneurosis, (59) **1882**
reflexes from intestine mucosa to, (21) **694**
resection, **(47) 1619**
resection, pancreas complications after, (72) 623
roentgenoscopy of diseases of colon and, (37) 1527
roentgenoscopy of surgical lesions of duodenum and, (18) **615**
salivary secretion and effect on, **1871**—ab
sarcoma, primary, (98) **1118**
secretion, (15) 1526, (149) **1694**
secretion, abnormal, pancreas secretion with, (124) **1039**
secretion, artificial, in phlegmonous and gangrenous wounds, (57) **1535**
secretion, augmentation of, by mastication of palatable food, **1585**—E
secretion of pancreas, liver and, drugs that check or promote, (119) **1692**
sedatives, ***2132**
surgery of, after effects, (83) **1200**
surgery of duodenum and, factors in, (107) 942
surgery of gallbtract and, anociassociation in, (69) 1032
surgical lesions of, and cap, negative diagnosis of, (36) 694
symptoms, surgical lesions as etiologic factors in, (108) 1943
symptoms, when justify surgical intervention, **1789**—ab
syphilis, (13) 1105, (91) 1109
syphilis, roentgenologic findings, eight cases, ***1824**
test meal examination of, value of, (15) **938**
tumors, benign, (126) **469, 1871** —ab
ulcer, (7) **1105**, (121) 1879
ulcer and tetany, **(64) 1198**
ulcer, chronic, experimental studies in production of, (88) 1109
ulcer, chronic, indolent, surgical treatment, **535**—ab
ulcer, diagnosis and prognosis of, 500 operations, (129) 942
ulcer, etiology and experimental production of, **1524**—ab
ulcer, experimental, (94) 1367
ulcer, hemorrhages from, (151) **627**
ulcer, infection cause of rheumatism, endocarditis, arthritis deformans and, (50) 774
ulcer of duodenum and, (21) **1450**
ulcer of duodenum and, diagnosis, (146) 1362
ulcer of duodenum and, diagnosis and treatment, (58) 940
ulcer of duodenum and, etiology, diagnosis and treatment, (76) **1360**
ulcer of duodenum and, experimental, after severing sympathetic, (117) 626
ulcer of duodenum and, in Panama Canal laborers, (24) 1278
ulcer of duodenum and, medical cure by removal of gastric juice corrosion, ***1625, 2090**—ab
ulcer of duodenum and, operative procedures and gastric motility and secretion, **1103**—ab, ***1745**
ulcer of duodenum and, operative treatment, (87) 1453
ulcer of duodenum and, perforated, (57) 541, (2) **1449**
ulcer of duodenum and, perforating, operative cure, (110) 1367
ulcer of duodenum and, simulation of, by adhesions, (69) 2099
ulcer of duodenum and, under experimental pyrodin anemia, (143) 372
ulcer of jejunum and, secondary, (29) 1106
ulcer of lesser curvature, diagnosis and treatment, (104) **1804**
ulcer, pathology and treatment, (6) 1879
ulcer, perforated, (5) 277
ulcer, perforated, involving pancreas in diabetic, (107) 1118
ulcer, perforated, prognosis and treatment, (74) 623
ulcer, ptosis of liver from perforated, (80) 1949
ulcer, pylorectomy and partial gastrectomy in, (119) **470**
STOMACH, ulcer, surgical treatment of, choice of operation in, (68) **2099**
ulcer, syphilitic, ***430**
STOMATITIS, mercurial, salvarsan in, (159) 627
STOMATOLOGY in French military hospitals, (24) 1945
STONE-CUTTERS using pneumatic tools, Raynaud's disease in, ***582**
STOOL: See Feces
STOVAIN spinal anesthesia, (107) 778
STRABISMUS, (153) **1944**
and ocular motor imbalance, present status of, (122) 942
convergent, in children, invisible bifocals in, (119) 276
heredity in development of, (96) 858
in children, (108) 942
in infants, importance of early treatment of, (75) 84
operation for, (120) 276, (64) 2099
shortening and lengthening muscles, new operative procedure, (118) 276
prognosis of, (76) **84**
STRAW, pulverized, as food and forage, (73) **1621**
STREET conditions and duty of physician, (117) 1943
STREPTOBACILLUS of pellagra, (150) 1694
STREPTOCOCCEMIA, endocarditis with, (39) 1192
puerperal, two cases, (122) 2021
STREPTOCOCCUS, agglutination and fermentation reactions among, correlation of, (68) **1359**
capsulatus, ear infection with, (31) 1273
endocarditis, autoserum injections in, (124) **180**
from pyorrhea alveolaris and apical abscesses, ***1055**
in human pathology, (95) 618
inoculation of lupus vulgaris with, (142) 2021
intravenous injection of colon bacillus and, production of appendicitis by, (60) **1359**
isolated from milk borne epidemics of tonsillitis in Massachusetts in 1913 and 1914, (85) **696**
lacticus, number of, and amount of acid formed in milk and cream, (62) 1358
lacticus, variability of two strains of, (59) 1358
meningitis, (9) **773**, (129) 858
meningitis, lumbar laminectomy followed by, two cases, ***2054**
sore throat, early diagnosis of, vaccines in, (103) **1878**
vaccine in scarlet fever, **929**
viridans and infections of upper respiratory tract, (12) **539**, (83) 1274
viridans cause of infectious endocarditis, ***1742**
virulence among, criteria of, (37) **1035**
STREPTOTHRICOSIS, bronchi, recovery, (49) 945
STREPTOTHRIX, liver abscess due to, (11) 2168
STRETCHER for carrying wounded from field, (122) 2028
for wounded in trenches, (34) 373
STRIDOR, congenital, (154) 627
STRONGYLOIDES intestinalis, (78) 84
STROPHANTHIN, action of, on suprarenal secretion, (31) **540**
STRYCHNIN, **242**
and caffein as cardiovascular stimulants in acute infectious diseases, (19) **1191**
effect of caffein, atropin, camphor and, on respiration, (34) **273**
in heart failure, (6) **1794**
laxative tablets containing, death from, **1781**—C
reflex arc under, variations in irritability of, (19) 693
symptoms after large doses of morphin, **1867**—C
STUDENTS at Lille, aid for, **68**
economy in study, (59) 2099
in Berlin, number of, **525**
medical, and war, **2002**
medical, at front, **65, 452**
medical, decline in number of, at schools in England, **258, 450, 675**
medical, duty of, **162**
medical, prospective, and low-grade medical colleges, **1428**—E

V. 19

STUPOR, anergic, thyroid extract in, two cases, (4) 87
STYLOID process, abnormal, causing tonsil irritation, (21) 1196
SUBARACHNOID medication, anatomic and physiologic factors in, (37) 1451
SUBMAXILLARY gland, foreign body in, (57) 371
SUBSCRIPTION faker arrested, 2079
swindlers wanted, 522, 601, 1008, 1170, 1435
SUCHARD, Eugène, death of, 524
SUCTION apparatus, *1910
influence of, on circulation, to act on abdomen, (80) 1115
SUGAR, action of hydrogen dioxid and, on anaerobes, (98) 2027
and charcoal for dressing wounds, prehistoric use of, (78) 375
cane products, cause of pellagra in south, (118) 543
capacity to utilize, and secretin, 1076—E
caramelized, favorable effect of, on normal and diabetic individuals, (51) 374
enrichment to detect meningococci in cerebrospinal fluid, (52) 2103
fever and salt fever in infants from contamination of water, (25) 1617
heart action and, (15) 1455
in animal body, history of, (27) 368
in blood, (122) 1039
in blood and milk, improved technic for test, (73) 1039
in blood, Bang's test for, advantages of, (79) 624, (22) 938
in blood guide in treatment of diabetes, (100) 1459
in blood in children, (6) 367
in blood in diabetes, (139) 1202
in blood in eclampsia, (90) 1200
in blood not always index to absorption of, (150) 627
in blood, quantitative test for, *241
in blood, test for, (74) 695, (55) 782, (131) 1202, (75) 1452
in infant feeding, 2165—ab
in urine, Haines' test for, 930
kidney secretion and action of, on circulation and, (82) 2106
milk, and charcoal in mercury poisoning, 530—ab
solutions, diuresis induced by intravenous injection of, (57) 1947
solutions in therapeutics, (113) 286
SUGGESTION and drugs, (74) 702
treatment by, (20) 1687
SUICIDE and insomnia, (21) 183
attempt at, by hanging, total loss of memory and progressive dementia after, (89) 2106
from general practitioner's point of view, (40) 1196
in Italy, 1354—ab
prevention of, (7) 937
SULCUS spiralis, external, epithelium of, (127) 1202
SULPHONAL and trional, *993
veronal and trional, relationship of, 1265—C
SULPHUR, *1913
partition and urinary nitrogen, study of, in rheumatoid arthritis, treated with intravenous injections of radium salts, (9) 1793
reaction in urine with cancer, (70) 476
to ward off vermin, (82) 1458
SUMMER resorts, health of, 670—E
SUN exposure, xeroderma pigmentosum following, (60) 1192
SUNLIGHT and artificial light, injury from, clinical study of, (144) 868
and ionic medication as used at Las Animas, report on, (140) 620
and roentgenotherapy of wounds in war, (56) 91
direct rays of, in experimental tuberculosis, (106) 696
in surgical tuberculosis, (143) 868, (60) 1036, (7) 1686
in tuberculosis, (55) 1942
in tuberculosis of bones and joints at seashore, (103) 188
in wounds in war, (111) 551
SUPERSTITIONS and physician, (43) 1197
and traditions regarding health, 957—ab
modern, (128) 626
parental, 1447—ab
SUPRACLAVICULAR fossa, echinococcosis in, (119) 866
SUPRARENAL SUBSTANCE: See Epinephrin
SUPRARENALS, (33) 546
and genital syndrome, (112) 1039
capsule in pathogenesis of shock, (117) 866
capsule, traumatic hemorrhage from, syndrome simulating peritonitis after, (98) 1538
deficiency, partial, and sympathetic irritability, (6) 1190
diseases of, (45) 541
function of interrenal portion, experimental research on, (39) 1364
hemorrhage, peritonitis simulated by, (78) 1802
hypernephroma and adenoma of hypophysis and, polyglandular syndrome with, (17) 1196
removal of, and one-sided thyroidectomy, influence of, on stomach and duodenum mucosa, experimental production of acute ulcers, (54) 2098
secretion, action of strophanthin on, (31) 540
tumor in sympathetic nervous system and, (166) 628
tumor of right, malignant sympathicus, (11) 1190
SUPRARENIN-NOVOCAIN infiltration-conduction anesthesia in inguinal hernia, (72) 2049
SURFACE area of the body, measurement of, (5) 2095
SURGEON and surgery of American revolution, account of, (34) 1191
army, conspicuous bravery of, 921
army, scientific meetings of, and war, 1596
army, woman appointed as, 1926
assistant, promotion of hospital interns to grade of, 355
consultant, experiences of, (35) 1456
death of eminent, from acute septicemia resulting from injury at operation, 259
French army, change in uniform of, 1514
French, at front, 675
military, congress of, in Brussels, 1862
military, European, work of, (81) 776
military, on firing line, (44) 774, (78) 1366, (124) 1943
mine, examination for, 1087
relation of internist to, (95) 1453
revenue cutter service, 256
skill required of, and bases of damages for malpractice, 1356—MI
trials and triumphs of, (80) 1529
with the cavalry, (84) 1457
SURGERY, American and European methods in medicine and, (94) 1529
American, contemporary, (15) 2100
among Indians in Alaska, *1748
ancient, and Ablucasis, 2035—ab
and surgeons in American revolution, account of, (34) 1191
clinic, problem of, and clinic worker, (93) 1616
constitutional factor in, (82) 1685
cosmetic, *203
diabetes and, (55) 282, (21) 540
diagnosis in, greater care in, (111) 1616
emergency, in country practice, (37) 541
field, (79) 375
growth of, 2067
half century of medicine and, (94) 1616
higher education in, (70) 618
infection in, due to lack of boiling of instruments, *1313
military, 167—C, 912—E
military, advantages of conservative surgery in ambulances, 1173
military, amputations in, (10) 472
military, and radiology, (78) 2104
military, conservative efforts in, (90) 1280
military, experiences in, at western seat of war, (86) 1199
military, experiences in Balkan wars, (50) 374
military, information on, 451
military, modern, osteoplasty in, (104) 179
military, now and forty-five years ago, (97) 1280
military, pathology of, *2045
military, Prof. Tuffier on current aspects of, 832—E
SURGERY, military, six months of, (24) 1456
military, technic for operations in field, (63) 186
civil war and present war, contrast between, (77) 1615
plastic, in malignant disease, (121) 1797
postgraduate teaching of, (5) 1944
present conditions in, (115) 1453
Russian, contemporary, (9) 778
survey of casualties in Mesopotamia, (5) 1797
who should do, (98) 85
year's progress in, (54) 695
SUTURE, button, in anterior colporrhaphy, (119) 2021
in human skull, premature obliteration of, (3) 2016
nerves, (92) 865
skin, (167) 180
SWALLOWING, gravity as factor in, (59) 1198
SWEAT glands, adenomas of, (117) 378
glands, tumors originating in, (46) 1619
SWEDISH Medical Association, 676
SWEET potatoes, ripening and storage of bananas and, 1164—E
SWIFT-ELLIS: Treatment of Syphilis: See Salvarsanized Serum
SWIMMING POOLS, sanitation of, 1427—E
SWINDLER and the physician, 1247—E, 1855—E
selling instruments purporting to represent Keystone Mfg. Co., 160
soliciting subscribers to American Bureau of Medical Research, 522, 1008
subscription, arrested, 2079
subscription, at work in Pennsylvania, 1008
subscription, warning against, 601, 675, 1170, 1338, 1435, 1510, 1594
SWITZERLAND quarantines against cholera, 161
SYMBIOSIS, effect of, on spore formation by bacillus welchii with reference to presence of spores in feces, (73) 775
SYMPATHETIC, cervical, threshold stimulus of, in relation to vasodilatation, vasoconstriction and salivary secretion, (19) 1794
vagus and hypoglossal nerves, division of, by bullet, with formation of arteriovenous aneurysm of carotid, (18) 2100
SYMPODIA, (53) 83
craniopagus and acephalus, rare fetal teratisms, (56) 1110
SYNDESMORRHAPHY and syndesmoplasty, (147) 181
SYPHILIS, (32) 1684
abdominal affections due to, (61) 282
Abelin reaction in, *199
amino-acid content of blood and cerebrospinal fluid in nonsyphilitic individuals and those with, *126
among insane in government hospital, prevalence of, *972
among insane negroes, (16) 1450
anaphria due to, *51
aortitis due to, (86) 1615
arterial structure changes and, (31) 1880
arteritis obliterans due to, (47) 1451
bladder, (148) 1694
blindness from, (77) 618
bone, congenital, (28) 1875
card index for record of case and treatment, (138) 620
cerebellar, differential diagnosis of cerebellar abscess and, (77) 469
cerebrospinal fluid in, when to examine, (30) 2102
cerebrospinal, intraspinous injections of salvarsanized serum in, (21) 938
cerebrospinal, intravenous and intraspinal injections in, (4) 538
cerebrospinal, salvarsanized serum in, (120) 1033, (62) 1452
cerebrospinal, treatment, new method, (61) 1795
congenital, (15) 183
congenital, affecting nervous system, (81) 1032
congenital, blood forming cells of liver in, with reference to lymphocytes and plasma cells, (59) 375
congenital, early diagnosis of, (114) 619
SYPHILIS, congenital, in infants, without Wassermann reaction, (83) 1690
congenital, prognosis and treatment of, (22) 2022
congenital, salvarsan in, (22) 699
congenital, treponema pallidum in blood stream at autopsy, (5) 773
conjugal, case of, (95) 1943
copper salvarsan in lupus and, (95) 1038
cranium and spine, (73) 542
cure of, (18) 368
diagnosis and treatment, pitfalls and mistakes in, (115) 619
diagnosis of, early, importance of, (114) 1943
dystrophy of joints of lower extremities due to, (11) 1611
ear, inner, relative frequency of, *1471
ear, internal and middle, (105) 543
early, prevention, diagnosis and treatment, (97) 1360
evening clinics for gonorrhea and, (16) 1875
extragenital, (130) 942
eye injury and, (32) 616
eye, salvarsanized serum in, subconjunctival injections of, (118) 1453, *1649
facial paralysis due to, (154) 87
facial paralysis occurring in treatment of, (48) 274
familial, and paralysis, *890
from neurologist's point of view, (96) 1360
general paralysis and, with report of pathologist of Napa State Hospital, (37) 1941
history of, early, *1961
ignored, plus soft chancre, (81) 864
in children, (144) 697
in Cuba, *1383
in rôle of malignant tumor, (85) 275
index, 267—ab
inherited, at Freiburg, (56) 1456
inherited, cholesterin content of blood serum in, (95) 1367
inherited, in child of 2½ with tardy deformed growth of long bones, (141) 952
inherited, in connection with clinical physiology and psychopathology, *1141
inherited, insufficiency of ductless glands with, (111) 626
inherited, laws of, (41) 2102
inherited, luetin and Wassermann reactions in, comparative importance of, (51) 1947
inherited, tardy visceral lesions from, (102) 1118
inherited, treatment of, (128) 951
inherited, white blood count in, (105) 286
innocent, (57) 618
joint, (99) 1194, (60) 1452
joint, in children, (10) 1611
Landau color test for, (150) 379, 686, 1182, *1461, 1520, 1677, (72) 1802, *1964, *1966
liver, (145) 1362
liver and spleen, (152) 1694
liver, tertiary, (44) 1876
luetin test in, (163) 87, (88) 188, 850, 2068—E
luetin test in, in adults and children, (139) 552
lung, (99) 1943
lung, simulating tuberculosis, *335
marriage of persons with, (113) 1039
menace of, to clean living public, (15) 1357
meningomyelitis due to, (140) 2029
mercurialized serum in, intravenous injection of, *1471
mercury and salvarsan in, (42) 1192
mercury, arsenic and iron compounds in, (81) 1115
modern status of, (94, 95) 1360
Mongolian idiocy and, 1636
mouth, (70) 941
multiple sclerosis due to, (94) 1685
necrosis of bone due to tuberculosis and, *211
neosalvarsan in, subdural injections of, *199
nephritis due to, (2) 614
nervous disease due to, treatment, (96) 1280
nervous system, (83) 2019
nervous system, central, (46) 1192

SYPHILIS, nervous system, central, cerebrospinal fluid in diagnosis of, (104) 543
nervous system, central, early involvement, (89) 1032
nervous system, central, intraspinal treatment of, (90) 1193
nervous system, central, involvement of eighth nerve in, *1471
nervous system, central, salvarsanized serum in, forty-five cases, (119) 1033
nervous system, early recognition of, (118) 1033
nervous system, early, spinal fluid in, *1465
nervous system in primary stage of, *979
nervous system, intrameningeal treatment of, (111) 1685
nervous system, new test of blood serum and cerebrospinal fluid in, (69) 857
nervous system, Swift-Ellis and modified Ravaut intraspinal injections for, *1563
nervous system, treatment of, and Wassermann reaction, *975
nervous system, treatment of, recent methods, 691—ab
nose deformity due to, autotransplantation of bone for, (44) 1795
palsy, unilateral of abducens, due to, neosalvarsan and mercury in, (144) 620
parasyphilitic diseases and, (83) 776
parenchymatous, diagnosis and treatment, (4) 860
pleurisy in, (104) 1460
primary stage with involvement of central nervous system, (85) 469
prophylactic packet in navy, 2007—C
prophylaxis of, in Brazil, (131) 867
psychical aspect of, (90) 275
psychoses and neuroses related to, (60) 1685
public health side of, (17) 177, (136) 544, (63) 1032
pyloric stenosis due to, (121) 543
reinfection with, fourfold, (87) 2106
rhinitis neonatorum due to, gravity of secondary infection in, (88) 703
salvarsan and neosalvarsan in, 360—C
salvarsan in, (121) 286, (136) 379, (150) 1195, (110) 1460, (75) 1615
salvarsan in, in military service, (93) 469
salvarsan in, with internal disease, (67) 1883
salvarsan in, with other diseases, indications and contraindications for, (83) 2106
salvarsanized serum in, experiences with, (115) 1943
septic complications in tuberculosis, cancer and, (68) 1274, (108) 1878
serodiagnosis, (129) 778, (6) 1797, (43) 2163
serodiagnosis, improved technic of, (84) 1623
serodiagnosis with cholesterin antigens, (85) 1615
serum in, agglutination by, (54) 1456
serum in, deviation of complement in, (67) 549
skin reaction in, (110) 1538
stomach, (13) 1105, (91) 1109
stomach, roentgenologic findings in, eight cases, *1824
stricture of rectum due to, seventeen cases, (39) 700
telangiectasia, generalized, associated with, (5) 1794
toxic injury of parenchymatous organs in early, (68) 549
treatment, (88) 92, (62) 186, (96) 942, (165) 1109, (98) 1529
treatment, modern, and central nervous system from biological point of view, (93) 696
tuberculosis among persons with, diagnosed by Besredka's tuberculin, (27) 272
tuberculosis and, (154) 2030
ulcer of stomach due to, *430
unusual and interesting cases, 1102—ab
various types of, *199
Wassermann and Hermann-Perutz reactions in, (81) 784
Wassermann reaction and, (125) 543
SYPHILIS, Wassermann reaction as clinical test with bearing on marriage, *1463
white spots in mouth sign of, (24) 2171
SYRINGE, cleansing, for anus, to ward off and treat hemorrhoids, (63) 863
method for transfusion of citrated blood in children, (97) 1109
transfusion of blood by, new method, *582
SYRINGOBULBIA, *988
SYRINGOMYELIA, case of, (117) 1453
SYSTOLE, intermittent expiration with, (55) 1278
SYSTOLIC pressure and cardiovascular load, comparative value of, and significance of cardiovascular load in pneumonia and chronic myocarditis, (89) 1453

SOCIETIES

Acad.—Academy.
Am.—American.
A.—Association.
Conf.—Conference.
Cong.—Congress.
Conv.—Convention.
Internat.—International.
M.—Medical, Medicine.
Phar.—Pharmaceutical.
S.—Society.
Surg.—Surgical, Surgery, Surgeon.

Ala. State M. A., 1252, 1589
Am. A. for Cancer Research, 920, 1525, 1610
Am. A. for Study and Prevention of Infant Mortality, 78
Am. A. of Immunologists, 1594, 1858
Am. Gastro-Enterological A., 1594, 1858, 1871
Am. Gynecological S., 601, 1668, 2014, 2091
Am. M. Coll. A., 754, 1025
Am. M. Jurisprudence A., 2000
Am. Medico-Psychological A., 1594, 1859
Am. Neurological A., 1858, 1935, 2012
Am. Pediatric S., 1086, 1170, 1594, 1925, 2093
Am. Phys. A., 1859, 1938, 2043, 2090
Am. S. of Biologic Chemists, 1086
Am. Urological A., 1510
Ark. M. S., 1920
Chicago Gynecological S., 270
Chicago (Ill.) M. S. North Side Branch, 691, 1187, 1251, 1771
Chicago S. of Internal M., 750, 1103
Conn. State M. S., 1921
Fla. State M. A. 1921
French Superior Council of Public Hygiene, 1777
Ga. M. A., 1333, 1771
German A. for the Protection of Infants, 1438
German Cong. of Military Surg., 1862
Health Legislation Conf., 768
Ill. State M. S., 1665, 1855
Ia. State M. S., 1997
Kansas M. S., 1771
La. State M. S., 1591
Me. State M. A., 2151
Md. M. and Chirurgical Faculty, 1253, 1591, 1772, 1922, 1998
M. Education Conf., 852
Miss. State M. A., 1772
Neb. State M. A., 1856
N. Y. Acad. of M., 77, 158, 256, 613, 934, 1433, 1607
N. Y. Neurological S., 77, 463, 537
N. Y. State M. S., 446, 752, 1433, 1592, 1787
N. Y. State Woman's M. S., 1592
N. Dak. State M. A., 1857
Ohio State M. A., 1008, 1085, 1592, 1774
Okla. State M. A., 2151
Ont. M. A., 1925
Paris Acad. of M., 258, 259, 524, 844, 1258, 1515, 1927
Paris Acad. of Moral and Political Science, 1597
Paris Acad. of Sciences, 260, 677, 843, 1437
Paris M. S. of the Hospitals, 756, 1928
Paris Neurological S., 1340
Paris S. of Biology, 1089
Paris S. of Surg., 524, 677, 923, 1173, 1258, 1515
Philadelphia Coll. of Phys., 80, 173, 463, 521, 600, 936, 1336
Philadelphia Co. M. S., 174, 521, 535, 600, 1101, 1270, 1434, 1668, 1791, 1857
Royal Institute, London, 1257
S. C. M. A., 159, 521, 1593
S. Dak. State M. A., 1924
Southern Surg. and Gynecological A., 365, 464
Swedish M. A., 676
Tenn. State M. A., 1510, 1522
Texas State M. A., 1434, 1775
Tri-State M. S. of the Carolinas and Va., 522, 841
W. Va. State M. A., 1924
Wis. Surg. A., 1510, 1775

T

TARANIDAE from Africa, undescribed, (6) 1363
TABES DORSALIS and tuberculous meningitis in pregnancy, (84) 1032
ataxia of, (82) 1529
ataxic polyneuritis resembling, (88) 371
bladder in, study of, (107) 858
early diagnosis of, (102) 550
false, of malarial origin, (129) 379, (74) 476
gastric and pain crises in, theory of mechanism of, (123) 1797
gastric crises, stretching of solar plexus in, (71, 72) 375
general paralysis and, (109) 1281
luetin reaction in diagnosis of general paralysis and, (54) 700
military service and, (73, 78) 1949
ocular paralysis in, pathology of, (83) 776
osteo-arthritis in, (96) 371
progressive paralysis and, present status of, (38) 2172
psychoses and, (104) 942
salvarsanized serum in, (62) 1452
simulating acute abdominal disease, (90) 1685
treatment of, compensatory exercises in, (20) 540
treatment of general paralysis and, present status of, (65) 1457
with unusual therapeutic result, (84) 469
TABLE microscopic diagnosis, reliable method for, *1909
TABLOIDS, deathbed of, 1511
TACHYCARDIA, paroxysmal, (23) 780, (3) 1449, (45) 1946
paroxysmal, importance of early treatment of, (43) 546
paroxysmal, types of, with reference to auricular fibrillation, (36) 1687
TACTILE impressions, localization of, (53) 1365
TÆNIA nana, case of, (53) 274
pisiformis bloch and tenia serialis gervais, cysticerci of, experiments on, (58) 1615
saginata, structural abnormalities with spurious parasitism in infant, *1972
TALIPES bipedal, splint for, (67) 1036
calcaneus, subperiosteal osteotomy of os calcis for, (124) 858
congenital, wire splint for early treatment of, (125) 858
paralytic, tendon plastic operation for, (49) 1801
planus, (137) 2021
planus, high versus low arch as cause of, *1208
planus, operative treatment, (88) 550
planus, stand for diagnosis of, *1755
planus, superstition of, 1675—C
TAMPON, absorbable, to arrest sheet hemorrhage, (31) 280
and pessary holder, improved, *1067
for severed intercostal artery, (11) 1530
TANLAC, 1930—P
TAR in chronic eczema, (58) 1456
TARSUS, architecture of, (10) 81
TARTAR EMETIC, *2066
dosage of, 1096
in kala-azar, (62) 1883
in leishmaniosis, (137) 952, (75) 1690, (85) 1803
TARTRATES, oxalates and citrates, influence of, on isolated heart, (16) 694
TASTE, nerves of, crossing of, (69) 1279
TAUROCOL refused recognition by Council, 1441—P
TEACHERS, clinical, full-time, in medical school, fallacies in argument against, 1027—ab
TEACHING, clinical, reorganization of, reports of special committee, *785
medical, in 17th century, *1373
medical, neuropathic and psychopathic hospitals with reference to, (2) 773
TEAR sac, West intranasal resection of, for dacryocystitis, (32) 467, (146) 1944
Yankauer operation for overflow of, (122) 1879
TEETH abscesses of roots, and ethmoiditis with homonymous crescentic scotomas, (99) 1529
army's, (14) 277
as foci of infection, (82) 1193
decayed, and rheumatic pains in limbs, (114) 1281
diseases of ear, nose and throat due to, (28) 857
eye disturbances due to impacted third molars, (147) 1797
focal infection of, eye involvement caused by, two cases, (74) 1685
malocclude, (38) 1192, (90) 1453
of private man, (66) 1876
removal of, blocking trigeminal nerve for, abscess of brain after, (97) 1690
writing with, after loss of arms, device for, (57) 2024
TELANGIECTASIA, generalized, associated with syphilis, (5) 1794
intracranial, 1936—ab
TELEGONY a myth, (24) 2101
TELEPHONE, application in surgery, (14) 779, (22) 1945
prescribing over, damage of, 843
TEMPERATURE, atmospheric, and sand-fly fever, (28) 1276
exercise and pulse-rate, 62—E
high, in malignant tumors, (16) 938
in typhoid, intermittent, (113) 697
range after supravaginal hysterectomy for myofibromata, (110) 858
rise of, with drop in weight of new-born infants, (26) 1532
subnormal, in tuberculosis, (42) 274
TEMPORAL artery, transplantation of anterior, *408, 685—C
bone, fractures of petrous portion of, (18) 1612
TENDON fixation for deformity from partial paralysis, (24) 616
hamstring, tenoplasty for contracture of, (143) 620
of fingers, spontaneous rupture of, (57) 1036
painful ganglia in tendon sheaths, knee or, (77) 375
sheaths, xanthosarcomas of joints and, (62) 1
transplantation and suture of, (73) 946
tumors in joints and, cholesterin in development of, (77) 947
TENNESSEE, educational advances in, 1430—E
law on habit forming drugs, enforcement of, (18) 1875
medical news, 160, 447, 521, 674, 1086, 1434, 1510, 2078
TENONITIS, bilateral acute serous, (39) 1795
TENOPLASTY for contracture of hamstring tendons, (143) 620
TENOTOMY, subcutaneous, for congenital torticollis, air embolus cause of death in, (8) 692
TENT for field hospitals, new ward, (74) 1529
TERATISMS, fetal, rare, sympodia, craniopagus, and acephalus, (136) 1110
TERATOMATA, contribution to question of, (143) 627
TEST: See also Reaction
TEST, acid agglutination, for typhoid bacilli, (59) 1278
agglutination, after typhoid vaccination, (52) 862, (80) 2026
agglutination, for differentiation of yeasts, (40) 184
agglutination, for exanthematous typhus, (82) 1366
agglutination, improved set for, (65) 1365
agglutination, simplification of technic for, (93) 949

TEST, agglutination, staining fluid facilitates, (110) 1691
antiseptic solutions, Seelig-Gould method, (155) 180
benzidin, dry, for invisible blood, (34) 474
bile pigment in body fluids, (118) 1460
blood, ptosis, of physical fitness, 1890—E
blood serum and cerebrospinal fluid in syphilis of nervous system, (69) 857
color, for citric acid, (145) 1694
color, for uric acid in urine, (61) 782
color, in differentiation of human and cows' milk, (22) 540
drug, of disturbance in vegetative nervous system, (59) 782
elastic tissue in sputum, (162) 627
fermentation, in milk examination, (133) 276
fermentation, of infants' feces, (106) 286
for antithrombin in blood, (47) 1528
Frommer's, for acetone, improved technic for, (62) 2025
functional capacity of heart, compression of femoral arteries as, (69) 2025
functional, in ear disease, (107) 1943
functional, in experimental tartrate nephritis, (20) 938
galactose, of liver function, (28) 273
hematein color, for occult blood, (57) 945
inoculation of guinea-pigs for tubercle bacilli in blood, (50) 1456
intelligence, Binet-Simon, for feebleminded children, (122) 1460
intelligence, Binet-Simon, in psychoses of senium, (107) 1032
intelligence, in examination of applicants for enlistment, (121) 1530
intelligence, symposium on, (118) 1530
intelligence, value of, and relation to service, (119) 1530
iodin, (47) 1113, (84) 2026
kidney function, (63) 702, (105) 1538, (49) 1876
kidney function, chemical, in surgical conditions of urinary tract, value of, *104
kidney function, clinical importance of, (99) 1951
kidney function in infants and older children, (108) 93
kidney function in surgery, (91) 696
kidney function, residual nitrogen in blood as, (66) 1536
Landau's color, for syphilis, (130) 379, 686, 1182, *1461, 1520, 1677, (72) 1802, *1964, 1966
liver and pancreas function, literature on, 72
liver function, two, (28) 273
meat, *569
meal, examination for stomach symptoms, value of, (15) 938
methylene blue, for purity of milk, (32) 184
microscopic, for pasteurized milk, *821
nitric acid, for albumin, (145) 627
occult blood in feces, (36) 2102
phenolsulphonephthalein, effect of anesthesia and operation on kidney function as shown by, (13) 1190
phenolsulphonephthalein, from viewpoint of abdominal surgeon, (149) 181
phenolsulphonephthalein, in chronic nephritis, *1885
phenolsulphonephthalein, of kidney function, (123) 180, (68) 475, (112) 697, (56) 940
phenolsulphonephthalein, of kidney function and anatomic changes in kidneys at necropsy, (1) 271
phenolsulphonephthalein, of kidney function, simple colorimeter for use in, *1757
phenoltetrachlorphthalein, of liver function, (28) 273
Schick, for immunity to diphtheria, (1) 1105, *1203, *1205, *1206, 1246—E, (70) 1452
skin, in typhoid, (20) 774
skin, specific, in infectious diseases, new uses of, (11) 938
TEST, sodium tellurite, for viability of bacilli tuberculosis, (75) 776
sugar in blood, (74) 695
sugar in blood and milk, improved technic for, (123) 1039
sugar in blood, Bang's, advantages of, (79) 624
sugar in blood, comparative, (55) 782
sugar in blood, improved, (131) 1202
sugar in blood, quantitative, *241
sugar in urine, Haines', 930
tetanus antitoxin, American method of, individual and group variations in guinea-pigs in, (38) 2096
tryptophan, of children's cerebrospinal fluid, (107) 286
typhoid in those inoculated against typhoid, misleading responses to, (59) 1535
urease, for urea in body fluids, (74) 864
Wilbrand, with new clinical instrument, topical diagnostic and psychiatric value of, (6) 1357
TESTICLE, chorioepithelioma of, (7) 2168
chorioepithelioma of ovaries and, (143) 2029
circulation of, experimental work on, (133) 778
diseases of epididymis and, (55) 857
dislocation of, 1269—MI
extracts of ovary and, in impotency, (75) 1279
hemorrhage into, spontaneous, (8) 778
implantation of ovary and, (95) 1274, (112) 1360
spasmodic pain in spermatic cord and, (115) 1039
torsion of, (95) 1803
tuberculosis of, (50) 1687
undescended, treatment of, (123) 860
TESTIMONIALS for Winox, method of obtaining, 1088
TESTIMONY, expert, bill to regulate, (33) 1527
expert, by alienists and neurologists, (5) 937
expert, in dementia praecox, (117) 1367
expert, medical, report of committee on, 769—ab
TETANISM, (40) 1107
TETANUS, (92) 92, (45) 185, (44) 280, (90) 284, (128) 551, (4) 698, (94) 865, (52) 1278, (54) 1365, (95) 1459, (47) 1688, (123) 1692
abortive treatment, (109) 1110
acute, with recovery, (45) 1035
affecting one side only, (68) 1948
and diphtheria toxins, detoxication of, (57) 1456
antitetanic serum and, *1552
antitetanic serum in subcutaneous injections of, (9) 1111
antitetanus serum and chloral in, (42) 1277, (28) 1618
antitetanus serum, Behring's, (74) 947
antitoxin, anaphylaxis following administration of, (149) 544
antitoxin in, 67, 675, (114) 778, (52) 1615
antitoxin, intraspinal injection of, *1982, 2164—ab
antitoxin, testing, American method of, individual and group variations in guinea-pigs in, (38) 2096
bacilli, cultivation of, from blood, (107) 1951
bacilli, desiccated and pulverized cultures of, killed by heat, in prevention of, (87) 1280
bacilli, distribution and habitat of, experimental study of, (55) 1359
carriers, 1850—E
cases, (35) 374, (96) 625, *815, (46) 945, (84) 1943
cerebrospinal fluid in, non-toxicity of, (48) 622
chlorinated lime in prophylaxis of, (80) 703
data on, necessity for compiling and comparing, (89) 549
early diagnosis and treatment, (66) 695
from felt pad, (26) 184
gas gangrene and, (5) 1453
hydrogen dioxid in, (101) 625
in field, (30) 1533
magnesium sulphate in, (100) 92, (83) 948, (116) 950, (75) 1457, (92) 1459, (28) 1533
TETANUS, magnesium sulphate in, research on, (96) 703, (74) 1115
oxygen injection in, (20) 1617
pathology and treatment of, (131) 1692
phenol and chloral in, 1266
phenol and salol in prophylaxis of, (49) 374
phenol in, (20) 88, (30) 184, (18) 278, (29) 372, (65) 475, 686
potassium permanganate in, (20) 372
prophylaxis of, (33) 861, (75) 947
prophylaxis of, jet of air in, (99) 625
puerperal, (32) 90
serotherapy and, colloidal iodin in, (23) 1196
serotherapy in, recovery, (101) 550
serotherapy plus narcotics in, (117) 551
treatment, (55, 75) 91, (98) 92, (99) 704, (65) 863, (89) 948, (23) 1112, (96) 1200, (31) 1618, 1862, (35) 2172
treatment and prognosis of, (45) 862
treatment by early sterilization, (42) 546
ultraviolet rays in, (91) 284, (66) 1458
TETANY and trauma of bone, (67) 946
from thickening of blood, (47) 547
in colic due to gall bladder calculus, (62) 1278
parathyroid, and calcium, 441—E
parathyroid origin in children, pathogenesis of, (124) 378
parathyroid, effect of acid administration on, (24) 2096
parathyroidectomy followed by, (134) 778
stomach ulcer and, (64) 1198
TETRACHLORETHANE poisoning, toxic jaundice due to, 766—ab, (32) 1276
TETRACENUS infection, 25 cases, (20) 1532
TEXAS medical news, 160, 352, 447, 674, 840, 1255, 1434, 1775, 2078
state board November report, 1268
THACKERAY'S physicians, (53) 940
THALASSOTHERAPY, 40 years of, (105) 1194
THEOBROMIN and caffein, *432
sodium salicylate in acute experimental nephritis, effect of, measured by excretion of phenolsulphonephthalein, (29) 273
THERAPEUTICS, (65) 1942
nihilism, 2 reasons for, (110) 778
rational, (85) 1193
THERIAC and mithridatium, (8) 2168
THERMAL baths with weak heart, (98) 1690
THERMO-COAGULATION for bladder tumors, 6 cases, (119) 1367
THERMOMETER, homograde, (99) 1943
THERMOS bottle, continuous drop irrigation from, (102) 1274
THERSCH flaps, growth of, into depths, (55) 1619
THIGH, fibrolipomas on, intramuscular, (103) 1367
wounds, treatment of, (51) 782
THOINOT, Léon-Henri, death of, 1861
THOMSEN'S DISEASE: See Myotonia Congenita
THORACIC duct in man, statistical study of, (2) 538
THORACOPAGUS lateralis (40) 694
THORACOTOMY in unresolved pneumonia, (138) 1110
intercostal, in empyema, (105) 619
THORAX, acute diseases of abdomen and, differential diagnosis between, (27) 1687
child's, anomalous Roentgen findings in, (70) 2105
children's, areas of dulness in, (96) 1367
diseases of, diagnosis and examination, (96) 777
empyema of, 229 cases, (94) 2020
gunshot wounds of, (88) 864, (102) 949, 1512, 1862
lesions of extremities and, hyperemia in postoperative treatment of, *1548
muscle, atrophy and rigidity of, in tuberculosis, (76) 91
resection of wall, for tuberculosis and bronchiectasis, (55) 862
resistance of, to septic infection, (87) 864
roentgenoscopy of diseases of, (26) 1612, (110) 1616
THORAX wall, adhesion of heart to lung or, (52) 1688
wounds of abdomen and, penetrating, (132) 860
THORIUM in pyelography, *2126
THORIUM X, biologic action of, experimental research on, (127) 2028
in cancer, (122) 866
urate deposits from, no effect on, (37) 1112
THREADWORMS: See Oxyuris Vermicularis
THREE Chlorides (Henry), 528—P
THROAT and ear department of Royal Infirmary, Edinburgh, report, (23) 1687
complications in accessory sinus diseases, (27) 857
diplococcus infections of, Connellan-King, (65) 2019
diseases of nose and, in general practice, (134) 1879
economics of eye, ear, nose and, (156) 1944
focal infection of nose, ear and, cause of general infection, (109) 1943
infections of nose, accessory sinuses and, (124) 1453
kaolin to remove bacteria in nose and, *1985
leishmaniosis of, (104) 1538
membranous lesions of, (115) 778
nose and ear conditions, (121) 697
obstructions of nose and, (120) 778
operations on nose and, in chronic poisoning of heart, lungs and kidneys, results, (85) 2099,
pemphigus of mouth and, (24) 272
phenomena of mouth and, during prodrome of smallpox, 1681—ab
sore, streptococcic, early diagnosis of, vaccines in, (103) 1878
surgery of nose and, pituitary extract in controlling hemorrhage in, *301
surgery of nose and, scopolamin in, (82) 1274, (71) 1876
surgery of nose, ears and, reduction of preventable disasters in, (126) 543
surgery of tongue, larynx and, technic of, (64) 623
teeth as primary factor in diseases of nose, ear and, (28) 857
tuberculosis, (22) 2018
tumors of nose and, inoperable, diathermy in, (21) 944
tumors of nose and, inoperable, radium in, (22) 944
wounds of ear, nose and, (47) 1197
wounds of, in war, (43) 1881
THROMBO-ANGEITIS obliterans, pathology of, (80) 84
obliterans, vasomotor and trophic disturbances of upper extremities with reference to, (18) 938
THROMBOPHLEBITIS, portal vein, septic, complicating gangrenous appendicitis, (62) 940
puerperal, treatment of, (14) 1029
THROMBOSIS and embolism, (132) 1361
arterial embolism and, operative treatment, (17) 1940
arterial, traumatic, with gangrene of leg, (50) 2024
aseptic, autoplastic methods for arresting hemorrhage and, (65) 946
lateral sinus, (167) 87, (117) 1275
mesenteric vessels, (119) 1282
sigmoid sinus, and fulminating otitis media with mastoiditis, (86) 1032
sinus, atypical, (71) 1685
sinus, of otitic origin, and brain abscess, ocular symptoms of, (21) 857
sinus, septic, double mastoiditis with, (119) 942
sinus, unusual case of, *983
THROMBUS, free, in heart, cause of sudden death, (160) 627
organization of, (68) 783
THYMOL, *1072
and charcoal for typhoid bacillus carriers, (67) 1689
manufacture of, 450
THYMUS: See also Goiter; Status Lymphaticus
THYMUS and pituitary extract in dementia praecox, 937—ab, (6) 1939
and spleen in rats, (59) 1619
cortex and medulla of, means to estimate size of, and number of Hassall's bodies, (160) 388
development of, in pig, (2) 1272, (2) 2016

THYMUS, duct-like spaces in, formation and fate of Hassall's corpuscles, (29) **1451**
experimental and clinical study of, (33) **280**
growth and function of, means to influence, (115) **378**
operations on, (122) **950**
resection of, (69) 623
roentgenotherapy of, in exophthalmic goiter, ***1392**
size and composition of, (73) **941**
tumors, diagnosis of, (77) **1802**
THYROID: See also Goiter; Parathyroid; Thymus
THYROID, (79) 1943
and parathyroid grafts, (25) **279**
boiling water injections into, for hyperthyroidism, (117) **469**
cavity in, plugged with iodoform filling, (115) **378**
cell, finer structure of, (113) 866
disease and tonsil, (109) 85
enlarged, esophagus obstruction due to, (22) 2100
enlarged, in elasmobranch fish, (50) 2087
enlarged, technic for operating, (57) 548
enlarged, thyroidectomy for, (118) 1879
extract, effect of, on blood-pressure, (15) **694**
extract in anergic stupor, (4) 87
extract in dementia praecox, (101) **188**
extract in mental disorders, (8) **88**
extract in symmetrical cyanosis of hands and feet, (156) 627
extract, influence of, on growth of puppies and guinea pigs, (82) **784**
functional defects in, and neurosis, (40) 1941
functions of, (56) **2024**
grafting, (26) **279**
histology of, in animals fed on various diets, (34) **1034**
insufficiency, (28) 546, (16, 24) **1112**
iodin content of, and diet, **1080**—E
iodin in fetal, (89) **1878**
iodin in relation to, and other tissues, **515**—E
iodin of, active constituent of, **2073**—E
iodin of, chemical nature and physiological activity, ***2042**
mediastinal, transsternal mediastinotomy in removal of, (108) 2020
operations, 400 cases, (62) 1036
physiology of, (27) 546
proteins of, decomposition of, (76) **1877**
seasonal variation in composition of, **155**—E
sheep's, diet of marine algae and iodin content of, (74) 941
suppuration, tardy, after typhoid, (22) 473
surgical considerations of, (30) 467, (20) 1106
tissue, autoplastic and homeoplastic transplantation of, in guinea pig, (66) **775**
transplantation in bone marrow, (68) **946**
THYROIDECTOMY for enlarged thyroid, (118) 1879
one-sided removal of suprarenals and, influence on stomach and duodenum mucosa, experimental production of acute ulcers, (54) **2098**
surgical anatomy of upper and lower poles of thyroid with reference to, (20) 1106
under local anesthesia, (102) **942**
THYROIDITIS, (91) **784**
chronic, and exophthalmic goiter, (65) **282**
suppurative, with perforation of trachea, (15) 272
THYROTOXIC symptoms, experimental study of, (28) **1799**
TIBIA, congenital defects of fibula and, (9) 692
exostosis on, cause of symptoms simulating loose body in knee, (145) 868
fracture of, apparatus for ambulatory treatment of, (80) 1615
fracture of fibula and, compound comminuted, transplantation of bone in, (45) 1451
fracture of spine of, (109) 858
fracture of upper extremity of, (126) 85
transplant of, in spina bifida, (96) **2029**
TIC, calcium chlorid for, (59) **186**
douloureux, (132) **544**
douloureux, gasserian ganglion operations for, technic and results, **1522**—ab
neurosis, (91) 618
TICKS and blood-sucking insects, salivary secretion in, (24) 621
paralysis due to bite of, (60) **178**
TIME, estimation of past intervals of, almost always shortens them, (106) **704**
TINEA capitis tropicalis in Egyptian soldier caused by trichophyton discoides sabouraud, 1909, (29) 1276
TISSUE, action of transient cold on, (111) **1201**
animal, reactions between bacteria and, under artificial cultivation, (62) **775**
chemical environment and life and growth of, ***726**
connective, changes in plasma culture, (62) 865
cultures, mitochondria in, (3) 1272
exchange of energy in live animal, (5) 2167
human, cultivation of, in vitro, (51) **1273**
living, cultivation of, outside the body, **516**—E
microcalorimetry aplied to animal, (5) 2167
oxidase reaction in sections of, (125) 1039
TIZZONI, observations and views of, on pellagra, **1917**—E
TOBACCO amblyopia, (66) 618
and nicotin, direct action of, on motor functioning and tonicity of intestines, (120) 378
effect of habitual use of, (114) 543
forbidden to all under 16 at Lübeck, **1776**
heart, (81) **1615**
intrinsic value of, (73) 1685
pathology from, (114) 1039
poisoning, chronic, and alcoholism, (99) **777**
smoke, toxic possibilities of, (18) 1687
TOCAINALGINE in obstetrics, (6) **1029**
TOCOTREMA lingua (creplin), (56) 1615
TOE, big, dislocation of, new method of reducing, (31) **178**
fractures of, typical, (97) 705
frozen fingers and, treatment of, (91) **1623**
giant growth in length of fingers and, (90) 1117
TONGUE, angioma of, cavernous, (81) 1274
controller of palate and, during general anesthesia, ***1757**
depressor and tonsil-seizing forceps combined, ***1910**
depressor - gastro - enterostomy clamp, (25) **1941**
operations on throat, larynx and, technic of, (64) 623
sarcoma of, ***291**
tuberculosis of, (88) 275
tuberculosis of larynx, lungs and, healed, (95) 275
tuberculosis, prognosis and treatment, (70) **1883**
tumors at base of, (69) 375
TONSIL, abscess of, (101) 696
adenoids and other throat conditions, relation of, to tuberculous cervical adenitis, (8) **368**
anatomic, clinical and surgical considerations of, (165) 1360
and thyroid disease, (109) 85
ascaris lumbricoides within body of, ***659**
cancer of, (52) 371
clinical and pathological findings in, (156) 2021
diseased adenoids and, early recognition of, (37) 82
extract in therapeutics, (72) 476
extract, influence of, on blood picture, (91) **1537**
functions of, and indications for removal, (72) **84**
immunity produced by adenoids and, in children, (107) 179
infected, chronically, recognition of, (74) **84**
infections of, (39) **1192**, (32) 2022, (3, 7) **2169**
infective focus, (135) 2021
irritation, abnormal styloid process causing, (21) 1196
mutilation of, (76) 618
TONSIL, operation on adenoids and, apparatus for producing simultaneous suction and pressure for, (100) 1796
operation, Sluder, (65) 618
removal by knife dissection, (69) **84**
removal, indications for, (142) **544**
seizing forceps and tongue depressor combined, ***1910**
surgery, new, (93) 2020
systemic disease and, (55) **178**, (55) 1528
tumor in region of, aneurysm of external carotid artery simulating, (62) 548
TONSILLECTOMY, (20) 272, (74) 857
abscess following, under local anesthesia, (24) 857
control of hemorrhage in, (128) 1797
during acute endocarditis, (127) **543**
in children, (18) **1106**
instruments to simplify operation, ***1909**
TONSILLITIS, (102) **1194**
acute, retropharyngeal abscess with rupture, asphyxiation and death following, (62) 541
milk borne, epidemic of, in Massachusetts, streptococci isolated from, (85) **696**
milk borne, epidemic of, in tuberculosis patients, ***1127**
pneumococcus, (92) **625**
TORTICOLLIS, ***645**
and writers' cramp, massage in, (17) 1357
bilateral congenital, (128) 469
congenital, air embolus cause of death in subcutaneous tenotomy for, (8) 692
TOURNIQUET, metal spring, (39) 1277
TOWNS' Epilepsy Treatment, **683**—P
TOXEMIA, etiology and symptoms, (62) 618
pregnancy, (62) 1273
pregnancy, etiology and treatment, (21) 774
pregnancy, treatment of, (1) **2169**
TOXICOSIS, pathogenesis of neuralgia in relation to inflammation, neurosis and, (81) 179
TOXINS and master-toxins, study in tuberculosis, (39) 1196
diphtheria and tetanus, detoxication of, (57) **1456**
TOXOPLASMA, experimental infection with, (127) 379
TRACHEA, bronchoscope in direct examination of larynx, bronchi, esophagus and, (105) 1274
fistula into, in congenital atresia of esophagus, (35) 781
foreign body impacted at bifurcation of, extracted by bronchoscope, (15) 1945
occlusion of, due to injury to cricoid cartilage after intubation and tracheotomy, (6) 1111
perforation of, with suppurative thyroiditis, (15) 272
tumor of, (33) **944**
TRACHEOBRONCHITIS, acute idiopathic destructive, 2 cases, (65) 1948
TRACHEOBRONCHOSCOPY, practical consideration of, (139) **544**
TRACHEOTOMY and intubation, occlusion of trachea due to injury to cricoid cartilage after, (6) 1111
bronchoscopy with, (169) **87**
emergency, (53) 1278
in croup, (101) **1951**
TRACHOMA, (66) 179
bodies as etiologic factor in trachoma and infusion blennorrhea, (13) 1940
electrolysis in, (106) 1453
etiology of, **999**—E
in eastern Kentucky, (69) **179**
outbreak in 2 industrial plants, effective control of, (125) 619
phases of, (75) 1796
prevention of blindness from standpoint of gonorrhea, syphilis and, (77) 618
surgical treatment of, (117) 1616
therapeutic test for, **1267**
treatment of, (129) **544**
TRAIN, bath, **1436**, **1437**, (33) 2171
equipment of, for German central committe of Red Cross, 1174
for transportation of wounded soldiers, 923
hospital, (70) **1458**, **1595**, (74) 1620, **1776**
hospital, operating in, (78) 1537
passenger, disinfection of, (47) **1457**
TRANSFUSION, (42) **280**, **613**—ab and kidneys, (4) **856**
by gravitation method, (100) 942
by Kimpton-Brown tube, **365**—ab
cannula and needle for intravenous injections and, (95) 1193
eltrated, in children, syringe method for, (97) 1109
clinical studies in, **2163**—**ab**
direct, (151) **2030**
for hemorrhage, ***1578**
from donor to recipient, simple syringe method for, (19) 540
hemolysis following, (87) **1109**
in infants and children, (50) **1615**
in pernicious anemia, **613**—ab
indirect, (124) **543**
influence of, on hyperglycemia and glycosuria in pancreatic diabetes, (3) **856**
new simplified method, (85) **619**
simplified by new method and apparatus, ***1315**
sodium citrate in, ***425**
syringe method, ***582**, (6) **1874**
testing donors for, ***1980**
tube, two-piece, retaining clamp for, ***1580**
TRANSMISSION of disease, **1488**—ab of disease by insects, (108) 705
TRANSPLANTATION: See also Grafting
TRANSPLANTATION, artery, anterior temporal, ***408**, **685**—C
bacteriologic examination of bones from cadavers with view to, (115) 626
bone, (70) 1032, (32) **1191**, (28) 1684
bone, in compound comminuted fractures of tibia and fibula, (45) 1451
bone, in tuberculosis of spine, Albee's method, ***400**
bone, in tuberculosis of spine, Hibbs and Albee operation for, relative merits of, (44) **1941**
bone, in tuberculous spondylitis, modified technic for, (67) 623
bone marrow, experimental, autoplastic, (64) **946**
bone-splint, in recurrent spondylolisthesis with paralysis, ***24**
brain tissue of rabbit, histologic changes in, (89) 1537
gastric mucous membrane, experiments on, (124) **470**
gonococcus culture procedure minimizing difficulties of, ***585**
kidney into inguinal region and right nephrectomy, dog healthy 6 years after, (52) **548**
nerve and muscle tissues, experimental plastic operation and, (72) **946**
organs, study of protective ferments of blood by Abderhalden methods after, (30) **1030**
ovaries, (120) **470**, ***1823**, **2014**—ab
ovary, case of implantation into uterus with resulting pregnancy, (23) **467**
rib, in hip dislocation and spinal cases, (13) 943
sarcoma of fowl, by injecting filtered citrated blood plasma of infected fowl, **1525**—ab
tendons, (73) **946**
thyroid, in bone marrow, (68) **946**
thyroid tissue of guinea pig, homeoplastic and autoplastic, (66) **775**
tibial, in spina bifida, (96) **2020**
tumor, experimental factors impeding, (141) **1693**
tumor, heterologous, mouse in rats, (13) 1530
tumor in animals, action of radium on, **1252**, **1525**—ab
tumor in rats, phenomena with, (125) **867**
tumor, into foreign species, **1610**—ab, (14) **2168**
TRANSPOSITION of viscera, (85) 1943, ***1986**
TRAUMA, abdomen, accidental, immediate section in, (64) 1942
and wound infection, (51) 1882
annular opacity of anterior surface of lens after, (171) 182, (136) 697
anosmia and enophthalmos due to, (58) 91
appendicitis and, (56) **774**
arthritis due to, with ankylosis, (71) **1621**
astigmatism following, (103) 1453
bone, and tetany, (67) **946**
bulbar paralysis due to, in child cancer and, (120) **1368**
of five, (87) **703**

TRAUMA, cerebral lesions due to, operative treatment, (1) 2100
chronic infectious diseases and, (93) 2026
diabetes following, (53) **1882**
duodenum perforation with, tardy, (100) 1367
epilepsy due to, local chilling in, (76) **1458**
erysipelas due to, **1267**
head, homolateral hemiplegia after, (117) 2027
hemoperitoneum due to, (29) **1196**
hernia due to, and workmen's compensation act (34) **1451**
hydrophthalmos following, (104) 1453
lung tuberculosis and, (64) **282**
myositis, circumscribed ossifying, due to, (66) **783**
neurasthenia due to, without physical injury, **678**
neuroses due to, (83) **476**, (140) 626, (27) **1533**
neurosis due to, generated by physician's examination, (88) 1623
pneumonia due to, (52) **700**
pseudo-aneurysm due to, (31) 700
rumination due to, (109) **950**
tumors, secondary, often located at site of, **349**—E
wrist, disturbance in growth and deformity ten years after, (93) 625
TREMATODES, larval, from North America freshwater snails, (61) 178
TRENCH-FOOT: See Foot, Trench
TREPHINING olecranon to drain elbow, (65) **1802**
TREPONEMA PALLIDUM, antibody formation against, (16) **2168**
cultivation of, (61) **1106**
discovery of, 10th anniversary of, (100) 1690
in blood stream in congenital syphilis at autopsy, (5) 773
staining of, various methods, (140) **379**
TRIATOMA megista, Brazilian insect, biting apparatus of, (116) 1039
TRICHIASIS, roentgenotherapy in, (8) 1033
TRICHINIASIS epidemic, (63) 1942
TRICHOCEPHALUS dispar, case of, (15) 1276
TRICHOMONAS, flagellate, parasitic, in man, (15) 861
TRICHOMONIASIS of intestine, clinical and experimental, (125) 1797
vagina and mouth, (25) 1875
TRICHOPHYTON discoides sabouraud, cause of tinea capitis tropicalis in Egyptian soldier, (29) 1276
TRICHOSOMAS, Brazilian species, (122) 626
TRICHOTILLOMANIA, ***1236**
TRI-IODIDES, 528—P
TRIONAL and sulphonal, ***993**
veronal and sulphonal, **1265**—C
TRIOXYMETHYLENE gauze for wounds in war, (26) **89**
TRISODIUM citrate in pellagra, (119) **1879**
TROMBIDIOSIS, ***2060**
TROPHEDEMA of limbs or unilateral hypertrophy, (65) 1032
TROPICAL diseases in Europe during war, danger of, (46) 781
diseases, Castellani appointed to chair of, in Italy, **2000**
medicine, study of, in United States, recent developments in, (46) 1876
pathology, (24) 1273
ulcerations, Wassermann reaction and etiology of, (129) 620
TROPICS, blood conditions in children of European descent in tropical Australia, (15) **372**
protein metabolism of white races in, (2) 1362
tuberculosis in, (112) **1952**
TRYPANOSOMA, action of human serum on, (56) 862, (64) 1108
antagonistic relations between blood elements and, (29) 1034
brucei of Nigeria, transmission of, by glossina tachinoides, (31) 373
cultivation of, **749**—E
infecting wild glossina tachinoides, (4) 372
lewisi, changes in biologic properties of, experimentally produced, (48) 1527
of Gambian mice, (6) 372
TRYPANOSOMA, pan-African, nomenclature of, (13) 779
TRYPANOSOMIASIS contracted in research work, **1171**
extermination of, on Prince's Island, **2115**—ab
human, and wild game, (13) 779
in Eket District of Nigeria, (2, 3) 372
in Portuguese West Africa, **824**—ab
in stomach contents, method for quantitative estimation of, (23) 2096
salvarsan copper in, experiments with, (7) 1362
treatment of, bases for, (66) **375**
toxicity of, anaphylactic symptoms produced by, (16) **1455**
TRYPTOPHAN test of children's cerebrospinal fluid, (107) **286**
TSETSE FLY: See Glossina Moritisans
TUBE, duodenal, for diagnosis and treatment, **1939**—ab
for intra-urethral medication, ***1754**
TUBERCLECIDE, **927**—P
TUBERCLES, pendulous, pedunculated, and masses in serous cavities, (54) 83
TUBERCULIN administration and work in tuberculosis, (35) **2023**
Besredka's, serodiagnosis with, and tuberculosis among syphilitics as diagnosed by this test, (27) 272
Elderton method of control in testing value of new, (13) **183**
febrile reaction and hemoptysis after diagnostic injection of, (39) **90**
human and bovine, tuberculin skin reaction with, (134) **379**
hypersensitiveness in lung tuberculosis, (47) **617**
in diagnosis and treatment of lung tuberculosis, (138) 867
in lung tuberculosis, (68) **542**, (120) 1797, (142) 1944
in lupus erythematosus diffusus, (41) **1684**
in private practice, (9) 614
in tuberculosis of eye, (41) 861
intradural, in tuberculous meningitis, 3 cases, (82) **1280**
optimum, dose of, (107) 696
reaction in breast-fed infant after diagnostic dose to mother, ***1312**
reaction, von Pirquet cutaneous, new instrument for scarifying in, (72) 1528
reaction, subcutaneous, in diagnosis, (42) 781
Rosenbach's, in lung tuberculosis, (38) 90
Rosenbach's, in surgical tuberculosis, (41) 1881
skin reaction in children of non-tuberculous parentage, (8) **773**
skin reaction in diagnosis of tuberculosis, (114) 626
skin reaction in, erythema, intense, (39) 2172
skin reaction, positive, in children with, (45) **695**
skin reaction, sensitization index with, (33) **90**
skin reaction, with human and bovine tuberculin, (134) **379**
specific susceptibility to, (86) 2026
therapy, (34) 857
therapy, biologic processes in, (72) 1457
therapy, systematic percutaneous, on large scale, (93) **1038**
value of, as addition to sanatorium treatment of tuberculosis, (25) **545**
TUBERCULOSIS, (122) 372, (123) 1530
advanced, pathology of mistaken diagnosis in hospital for, ***11**
among syphilitics diagnosed by Besredka's tuberculin, (27) 272
bacillemia, primary, in infants, (16) **2170**
Bacillus: See Bacillus Tuberculosis
blood changes in, (98) 1194
blood pressure in, (121) 372
bone, (132) 1194
bone and joint, calcium in, (62) 475
bone and joint, etiology and pathology of, ***17**
bone and joint, heliotherapy of, at seashore, (102) 188
bone and joint, treatment, (62) **701**
bone necrosis due to syphilis and, ***241**
TUBERCULOSIS, breast, **6** cases, (21) 1276
bronchial and mesenteric glands, followed by general tuberculosis, (16) 943
bronchial, in children, diagnosis of, (34) 90
bulbar conjunctiva, (24) 82
camp for children, Bamford Hills, (43) 370
campaign against, (94) 696, **1338**
campaign against, among workmen, **601**
campaign against, coordination of public and private effort, (36) 2019
campaign against, in Bombay, India, (5) 1686
campaign against, in Cincinnati, (32-45) 2019
campaign against, in Cleveland, (81) 1108
campaign against, in Connecticut, (40) 1795
campaign against, in England, **1927**
campaign against, in Iowa, (79) 1108
campaign against, in Mississippi valley, status of, (74) 1108
campaign against, in Texas, (44) 370
campaign against, need of uniformity in education, (75) 1108
campaign against, prevailing mistakes in, (35) 774
campaign against, publicity most powerful factor in Indiana's fight, (77) 1108
campaign and Red Cross seals, (45) 370
Chicago plan for municipal control of, (38) 774, (76) 1108
children, (120) 372, (101) 619
children and school, (149) 380
children, pathologic anatomy of, (49) 1113
children, prophylaxis of, by removal from infected environment, (24) 183
children, secondary infections in, (66) 1883
children with, pseudomeningitis in, 2 cases, (87) 2026
climatic treatment of, and therapeutic use of cold, ***1045**
concealment of, ground for annulment of marriage, **1024**—MI
Conference, Mississippi valley, (73) 1108
congenital, (23) 1618
conjugal, **184**
copper salts in, guinea-pigs, (108) 949
copper salts not effectual in, (126) 551
dentist's viewpoint, (11) 368
diagnosis of, early, (92) 858, **(61)** 940
dispensary, medical results in, 1914, (47) 2019
dispensary, social service and administration in, (46) 2019
dissemination of, influence of immigration on, (94) 1032
ear, middle, (12) 272
eradication of, (98) 1032
exophthalmic goiter symptoms with, (17) **472**
expenditures for fighting, in 1914, 343—ab
experimental, action of lecithin on tubercle bacilli and relation to, (46) **83**
experimental medicine and, (35) 90
eye, (34) 82
eye, tuberculins plus anti-tuberculosis serum in, (41) 861
eyestrain in development of, (125) 180
Friedmann's treatment, (84) 92, (60) 623
Friedmann's treatment, in children, (75) 187
Friedmann's treatment kills 5 guinea pigs, (37) 184
gastro-intestinal disturbances in, from insufficiency of abdominal muscles, (60) **946**
genitalia, (17) 856
genitalia, in little girls, (72) 283
genitalia, male, (14) **472**
genito-urinary, case of, (127) **860**
glandular, (106) 778
glandular, calcium in, (156) **380**
glandular suppurative, simulating typhoid, terminating in miliary tuberculosis, (39) 774
TUBERCULOSIS, gold salts and radiotherapy in, (38) 1800
heart, small, in, ***1291**
hip, (6) 1611
hip joint, bronchial glands, lungs and intestines, (20) 1276
hip, mechanics and pathology of, in relation to diagnosis and treatment, ***1732**
home hospital experiment with, (32) 857
home or climate treatment, (66) 1193
home treatment of, **(4)** 620, (138) 1194
hospitals, county, referendum campaigns for, (63) 274
hospitals, local, value and necessity for, (41) 370
how to escape, (55) **1452**
immunity and, (108) 696, (37) 774
immunization against, (119) 372
impeded breathing through nose does not predispose guinea-pigs to, (41) 90
in aged, **(4)** 1793
in tropics, (112) **1952**
incurability of, (19) 856
infant, new-born, **(8)** **1272**
infants with, provision for, **360**—C
infection and gynecology, (36) 774
infection and superinfection, (82) 703
infection in childhood, adult death, (89) 777
infection in, modes of, **2085**—ab
inheritance of, (34) **1364**
intestine and lung, with tuberculous empyema, tuberculous septicemia and terminal intestinal hemorrhage, (20) 2022
intimate rather than casual contact cause of, **833**—E
ionized air and local application of electricity in, (37) 90
joint, (95) 1529
joint, inlay bone graft in, (60) 1615
Kentucky fits up exhibit car, (78) 1108
kidney, (114) **378**, (117) **859**, (117) **1460**, **2160**—ab
kidney, chronic blood borne, primary localization and mode of spread of, (101) 1803
kidney, diagnostic difficulties and surgical problems in, (71) **179**
kidney hematuria, symptomless, from tumors, aneurysms, calculus and early, (3) 2100
kidney, horseshoe, (50) **945**
kidney, spontaneous healing of, **1331**—E
knee-joint, in adults, prognosis and treatment, (4) **1611**
knee-joint, in children, (5) 1611
knee-joint, in children, prognosis and treatment, ***1387**
knee-joint, resection for, ***140**
laryngitis due to, (40) 1031
laryngitis due to, familial, (111) 378
larynx, (3) 620
larynx, symptoms and diagnosis, (23) 857
light in, **2087**
lung, and nose breathing, (41) 90, (147) 2029
lung, and pregnancy, (137) **867**
lung, artificial pneumothorax in, (18) 88, (105, 109) 696, (50) 1192, (114) 1202, (48) 1614, (63) 1615, (46) 1941, ***1973**, (54) 2019
lung, bacillus tuberculosis in urine in, (64) 941
lung, blood from, inhibition of clotting in, (56) 782
lung, chemotherapy of, (35) 184
lung, diagnosis and treatment, (34) 774, (47) 1273
lung, diagnosis of incipient, (117) 372, (141) 544, (39) 1107, (29) 1941
lung, diagnostic technic in, (108) 778, (62) 1942
lung, diagnostic theses in, ***1977**
lung, early diagnosis of, (77) 275, (15) 472, (88) 777, (122) **778**, (39) 857
lung, fever in, (29) **368**, (111) **1281**
lung, fever in, therapy of, (98) **179**
lung, healing process with natural pneumothorax, (92) **1280**
lung, in children and tuberculosis in adults, comparison of symptoms and signs, (41) **1687**
lung, in children, early, (1) 620

TUBERCULOSIS, lung, in children, incipient, (32) 1196
lung, in infants, with cavities, (37) 862
lung, incipient, in school children, (12) 183
lung, laryngeal manifestations in, significance of, 650 cases, (54) 178
lung, Prudential's ordinary mortality experience from, (105) 778
lung, quack and, 1383—ab
lung, red blood corpuscles in advanced, and amyloid degeneration, (133) 627
lung, relation of, to soil formation and lack of calcium, (119) 85
lung, resection of phrenic nerve in experimental, influence of, (63) 548
lung, rib mobilization in, (2) 2100
lung, Roentgen ray in early diagnosis of, (39) 694
lung, roentgenologic and clinical findings in, (95) 1878
lung, sanatorium for, results, (14) 545
lung, surgical intervention in, indications for, (2) 620
lung, syphilis simulating, *985
lung, trauma and, (64) 282
lung, treatment of, in Swiss sanatorium, (68) 2025
lung, tuberculin hypersensitiveness in, (47) 617
lung, tuberculin in, (68) 542, (142) 1944
lung, tuberculin in diagnosis and treatment, (138) 867
lung, tuberculin, Rosenbach's, in, (38) 90
lung, vaccine therapy of bacterial diseases of lungs complicating, (49) 1614
lung, vapor of pinene in, (101) 777
lung, variations in weight in, during sanatorium treatment, (34) 184
lymph glands, roentgenotherapy of, (124) 626
marriage of persons with, 531
mesenteric and retroperitoneal glands, preoperative diagnosis, (12) 856
mesentery, (115) 1110
mesentery, and lobar pneumonia, (89) 1685
mesentery cyst of jejunum, removal of, with segment of bowel, death later due to tuberculosis meningitis, (125) 1110
miliary, cancer of breast in man with healed, (56) 617
milk of cows immunized against, protective principles in, (64) 1883
mortality of cancer and, in Prussia in 1913, 1598
negro and, (83) 1108, (58) 1452
negro and, in Atlanta, (57) 1452
negro and, in South, (82) 1108
negroes with, need of hospital facilities for, (59) 1452
nerve block, public health and, (136) 276
nose, (89) 618
opsonins in blood serum in, and injections of contratoxin No. 4, Mebnarto, (10) 2169
patients, are physicians square with, (129) 1033
patients, traveling of, 1818—ab
peritoneum and cirrhosis of liver, 80—ab
von Pirquet test in, significance of, (123) 778
pregnancy and, (15) 1029
pretuberculous stage and early symptoms, recognition of, (38) 1107
prevention, practical, (97) 469
prevention, treatment and cure of, (103) 696
primary lesion in, (19) 1455
problem and federal government, (125) 778
problem in Cincinnati today, (33) 2019
problem in New York, (6) 1686
problem in rural communities and duties of health officers, (13) 466
problem, state sanatorium in, (46) 1273
psychology of, (33) 857
public responsibility and, 1155—ab
radiotherapy in localized, (71) 1360

TUBERCULOSIS, rehabilitation and segregation in, 1180—C
von Ruck treatment, U. S. Public Health Service report on, 347—E, 608—C
salvarsan and neosalvarsan in, experiments with, (143) 276
sanatorium, are we getting proper value from our plant and expenditure for, (60) 468
Sanatorium, Chicago Municipal, provision for infants in, 72—C
sanatorium, Cincinnati, (49) 2019
sanatorium, review of cure at, (59) 274
sanatorium, Roentgen ray in, (68) 1193
sanatorium, View Point, (159) 544
sanatorium work, 4 years of, (118) 1952
sanatoriums, 914—ab
sanatoriums in south, (126) 778
septic complications in syphilis cancer and, (68) 1274, (108) 1878
serodiagnosis of, (136) 867
serum or vaccine treatment of, (118) 372
social economic aspect of, (33) 774
sodium sulphocyanate in, action of, (74) 775
soldier with, (8) 1195, 1861
soldiers with, treatment for, 2082
Spine: See also Pott's Disease
spine, bone transplantation for, Albee method, *400
spine, bone transplantation for, Hibbs and Albee operation for, relative merits of, (44) 1941
spleen, (33) 177
sputum, pneumococci in, types of, (64) 775
state policy in management of, (124) 778
sunlight direct in experimental, (106) 696
sunlight in, (55) 1942
surgical, action of ischemia on, (118) 705
surgical, heliotherapy in, (143) 868, (7) 1686
surgical, heliotherapy of, without mountain climate, (60) 1036
surgical, Rosenbach's tuberculin in, (41) 1881
surgical, treatment of, (110) 1453
surgical, urochromogen reaction of Weisz unreliable in, (139) 1693
syphilis and, (154) 2030
temperature, subnormal, in, (42) 274
testicle, (30) 1687
thorax muscle in, atrophy and rigidity of, (76) 91
thorax wall resected for bronchiectasis and, (55) 862
throat, (22) 2018
tongue, (88) 275
tongue, larynx and lungs, healed, (95) 275
tongue, prognosis and treatment, (70) 1883
tonsillitis in patients with, milk-borne, *1127
toxins and master-toxins, study in, (39) 1196
treatment, (125) 372
Tuberculin in: See Tuberculin
tunica vaginalis, hyperplastic, (2) 1111
vaccine prophylaxis and therapy of, (84) 618, (111) 1367, (6) 1616
vulva, (8) 1449
war and, (69, 70) 1536, (8) 1686
what we should know about, (35) 616, (69) 1193
work among Jews of Cincinnati, (48) 2019
work in, and administration of tuberculin, (35) 2023
TUFFIER, Prof., on current aspects of military surgery, 832—E
TULLE, greased, for wounds, 1777
TUMOR, abdomen, due to inflammation, (106) 1281
abdomen, passive congestion of liver simulating, 465—ab, (110) 1109
appendix, non-malignant, (38) 1364
auditory nerve, removal of, through petrous bone, (122) 1368
bile and pancreatic ducts, (6) 271
bladder, (34) 1527
bladder, contradictory incontinence of urine with, (70) 947

TUMOR, bladder, fulguration in, (94) 777, *1050
bladder, high frequency treatment in, (58) 371
bladder, soft, *580
bladder, thermo-coagulation in, 6 cases, (119) 1367
bladder, urinary, (104) 85
bone, giant cell, (126) 1361
brain, (93) 1878
brain, continuous clonic spasm of left arm due to, (13) 938
brain, frontal lobes of, 4 cases, (137) 379
brain, pathology of, (2) 1939
brain, results of operation for, *189
brain, third ventricle, *1903
brain, treatment of, (3) 1939
brain, trigeminal disturbances from, aid in localization, (150) 2029
breast, galvanocautery knife for excision of, for microscopic diagnosis, 2092—ab
carotid gland, (68) 375, (139) 1361, 2162—ab
cell, Zehbe's, found in mixed, and human cancer, 1610—ab
cells, promitosis in, (51) 2098
cells, subcutaneous and intraperitoneal administration of, in cancer in mice, immunizing effects of, (54) 1359, 1610—ab
cerebellum, chronic progressive, (5) 942
cerebellum, life prolonged by intratracheal insufflation in, (132) 379
cerebellum, ocular symptoms and flaccid paralysis with, (132) 1202
cerebrum, diagnosis of, (1) 1939
chemotherapy and, *1283, 1611—ab
colloidal silver with lecithin in malignant, (79) 696
cultivation of human malignant, in vitro, 516—E
cystic, common to both sexes, 1680—MI
dentinal tissues, (110) 1281
diathermy in inoperable malignant, (3) 1275
eye, lesions of, (25) 2018
growth, action of substances inhibiting, (65) 775
hypophysis cerebri, insured having, 2089—MI
ileus from internal incarceration and, (45) 1800
implanted, immunity of mice to, (48) 2097
implanted, inflammation and immunity of mice to, 1610—ab
in Japanese waltzing mouse, 1525—ab
inheritability of, of specific organs, 1610—ab
intestine, chronic enteric intussusception due to, *1303
jaws, mesothelial *40
kidney, (76) 1796
kidney hematuria, symptomless, from aneurysm, calculus, early tuberculosis and, (3) 2100
liver, primary spontaneous, in mice, 1525—ab
malignant, in young, (17) 1191
mediastinum (114) 1878, (99) 2020
mediastinum, diagnosis of, (148) 1879
mediastinum, operation to relieve pressure from, (65) 1036
mediastinum, primary, (4) 277
mixed, in mediastinum, (149) 627
mouse, (130) 1202
mouse, in rats, heterologous transplantation of, (13) 1530
mouse, influence of Roentgen rays on, (105) 92
neck, differential diagnosis and treatment, (16) 774
nerve, need not submit to operation for, damages recoverable, 1786—MI
nose and throat, inoperable, diathermy in, (21) 944
nose and throat, inoperable, radium in, (22) 944
omentum, inflammation, (69) 946
ovary, and perithelioma of ovary, (100) 1538
ovary, in pregnancy, 270—ab, (134) 1110
parathyroid gland, with osteomalacia, (109) 1624
parotid, radium in, 1611—ab
pelvic, inflammatory, cure of, by weak galvanic current, (93) 376
pericardium, primary, (142) 2029

TUMOR, perirenal and peri-ureteral, (49) 1107
pulsating, multiple, secondary to hypernephroma, (26) 1196
pylorus, congenital, operation for, Roentgen-ray examination following, (48) 695
radiotherapy in malignant, (71) 1360
radium in, (1) 778, (127) 1110
reticular fibers in, (127) 867
roentgenotherapy and radium in malignant, (4) 182
roentgenotherapy in inoperable, (25) 943
roentgenotherapy in malignant, (87) 618, (100) 696, (23) 1030, *1477, (8) 2022
salivary gland, chronic nonmalignant, (93) 1803
scalp, benign multiple, (48) 1619
secondary, localization of, at point of injury, 349—E
spinal cord, (136) 626
spinal cord, aneurysm of aorta simulating, (134) 626
spinal cord, early diagnosis of, (12) 614
spinal cord, recovery after removal, (143) 379
stomach, benign, (126) 469, 1871—ab
suprarenals, and sympathetic nervous system, (156) 628
suprarenals, malignant sympathicus, (11) 1190
sweat glands, (46) 1619
syphilis in rôle of malignant, (85) 275
temperature in malignant, high continued, (16) 938
tendons and joints, cholesterin in development of, (77) 947
thymus, (148) 1873, (77) 1802
tissue, alien, failure of attempts to inoculate with, (89) 188
tongue, base of, (69) 375
trachea, (33) 944
transplantation, experimental, factors impeding, (141) 1693
transplantation in rats, phenomena with, (125) 867
transplantation into foreign species, 1610—ab, (14) 2168
transplanted, in animals, action of radium on, 1525—ab
treatment of new growths, (140) 86
uterus, enormous, (80) 542
uterus, operative and radiotherapy of benign and malignant, (39) 474
uterus, stromatogenous, morphology and histogenesis of, (5) 1029
uvula, (79) 1274
TUNICA VAGINALIS, fibroma in, (92) 188
hematocele of, spontaneous rupture of, (7) 1173
tuberculosis of, hyperplastic, (2) 1111
TURBINATE, inferior, flap resection to reduce it when obstructive, (67) 468
operation, conservative, new, (67) 695
TURKEY, Americans in, 1448—ab
TURNER, George, victim of leprosy research, 1172
TURPENTINE exterminates vermin, (62) 1457
in puerperal endometritis, locally, (146) 1694
TWILIGHT SLEEP: See Scopolamin-Morphin Anesthesia in Labor
TWINS, diagnosis of one or more placentas at birth of, (89) 1200
pregnancies, intolerance of fibromyomatous uterus with, (100) 1201
Siamese, unusual case of, (18) 861
TYMPANITES and pneumoperitonitis, differential diagnosis of, (99) 942
TYPHOBACILLOSIS, Landouzy's, (36) 184
TYPHOID, (66) 186, (95) 777, 1513
abortive treatment of, (36) 546, (92) 1195
abscesses, 7 cases, (63) 2024
absorption of fat and protein in, (6) 2095
albumoses in, (71) 1458
among soldiers, (54) 623, 680, 922, (66) 1365, (50) 1688, (50) 1882, (74) 1949, (63) 2104
among soldiers, prophylaxis and treatment of, (38) 546, (106) 1691

TYPHOID among Swiss soldiers guarding border, (38) 1112
and paratyphoid infection, (9) **1454**
and paratyphoid mixed vaccines, Castellani method of preparing, (79) **1802**
anomalous case of, in inoculated subject, (8) 544
antigen treatment of, (104) 949
autohemotherapy in, (30) **1112**
autoserotherapy of, ineffectual, (64) **2104**
Bacillus: See Bacillus Typhosus
bacillus bulgaricus in, (27) **774**
bacteriology of, (89) 1623
carrier, chicken as, (85) **84, 915**
—E
carrier, later history of, ***2051**
carrier, thymol and charcoal for, (67) **1689**
collapse in, (28) **1456**
colloidal gold in intravenous treatment of, 42 cases, (37) 546
colloidal metals contra-indicated in, (43) 622
danger of putting paratyphoid patients in same ward with, **2152**
deaths from, sequelae of, **1502—E**
defervescence in, critical, (18) 177
diagnosis of, rapid bacteriologic, new method, **677**
diet in, **610**
diet in, dangers of too greatly restricted, (95) 85
diet in, high caloric, **251—E**
diet in, high caloric, in infants and children, (5) **1682**
differential diagnosis of, by microscopic examination of blood, (38) **1277**
differential diagnosis of dysentery and, dry culture media for, (59) **475**
differential diagnosis of gastroenteritis, appendicitis and, (126) **3194**
ear complications in, (13) 272
epidemic at Barcelona, **408—ab**
epidemic in Belgium and Northern France, **66**
epidemic simulating, caused by paragaertner organism, (41) **2097**
epinephrin in, (52) **622**
flora of feces in, and diets, (79) **776**
hemorrhagic diathesis in, (136) 552, (62) 1535, (79) 1621
in Cleveland in 1913, (59) 83
in Copenhagen in last 15 years, (107) 1804
in large cities of United States in 1914, ***1322**
in Philippines, (157) 87, **1163—E**
in Rockford, Ill., (69) 775
intestine perforation, early diagnosis and treatment, (126) 1033
intestine perforation, operative treatment, (11) 1683
memory defect after, 2 cases, (4) **1939**
meningitis, primary, (120) 543
metabolism of patients with and without food, calorimetric observations on, (7) **2095**
multiple neuritis with or after, (7) **1794**
municipal control of, (77) 2099
near Rome, (112) 286
orchitis complicating, **80—ab**
parotid glands, inflammation in, **1089**
peritoneal complications of, (26) **2171**
perityphlitis complicating, in war, preventive treatment of, **1928**
prevalence of, in sanitary survey of Ohio River cities, (85) 941
prevention in southern municipalities, present status of, (76) 2099
prevention of, (88) **1038,** (114) **1453**
prophylaxis of, (71) 1366
salicylic acid in wounds and, (7) **1033**
sanitary conditions of British soldiers and comparative absence of, **677**
sensitized versus non-sensitized typhoid bacteria in prophylaxis and treatment of, ***489**
serotherapy in, (21) 1455, (115) **1460**
service in military hospitals at Vichy, organization of, (47) 622
serum of person inoculated against, agglutinating power of, (11) **1617**
septicemia and kidney complications in, (137) 552
sequelae of, (30) **694, 1502—E**
serodiagnosis of, (110) **2028**

TYPHOID, skin test in, (20) **774**
spine, 4 cases, (27) **1450**
spondylitis, (100) **2027**
suppurative glandular tuberculosis simulating, terminating in miliary tuberculosis, (39) **774**
temperature in, intermittent, (113) **697**
tests for, in those inoculated for, misleading responses to, (59) 1535
thyroid suppuration after, tardy, (22) **473**
treatment of, (23, 29) **699,** (48) 1277
typhus, dysentery and cholera, war diseases, (19) **88**
typhus, relapsing fever and malaria, resemblance between, (21) **472**
urochromogen differential test for, (49) **475**
vaccination, (97) 92, (103) 93, (38) 177, (170) 182, (40) 289, **450,** (141) 697, (40) 944, ***1147, 1259,** (73) 1536, (106) 1538
vaccination, agglutination after, (80) **2026**
vaccination, agglutination and deviation of complement tests after, (123) 1368
vaccination, agglutination test positive after, (100) 625, (52) **862**
vaccination and immunity to infectious disease, (22) 861
vaccination, blood picture after, (82) 1949
vaccination entails leukopeny and eosinophils disappear, (72) 1690
vaccination, experimental research on, (27) **1618**
vaccination in Belfort district, (21) 278
vaccination in British army, results of, **1171**
vaccination in children, (151) 276
vaccination in Italian army, 579 —ab
vaccination in navy, **68**
vaccination in outbreak of, in Sloan Hospital for Women, (97) 1274
vaccination, New York Health Department experiences with, ***3**
vaccination of public, (46) **547**
vaccination, prophylactic, epidemic three months after, ***728**
vaccination, prophylactic, possibility of failure in, **2157—C**
vaccination, prophylactic, report of 2,000 cases with studies of Widal reaction, (51) **1528**
vaccination, protection of, (44) 1277
vaccination, reaction to, (108) 1691
vaccination, sequelae of, (48) **1942**
vaccination, technic for, (86) 1280, (83) 1366, (55) 1688
vaccine, **665**
vaccine, autogenous living, (2) **1530**
vaccine, in typhoid, value of, (142) **697**
vaccine, mixed, paratyphoid A and paratyphoid B, (7) 1944
vaccine, modification of, (71) 1690
vaccine, therapy of, **518—E,** (90) 865, (129) 951, (109) 1939, (14) **1106,** (117) **1202,** (84, 85) **1366, (64) 1620,** (107) 1691, (33) **1882,** (95) 1950, (53) 2103, 2139 —E
vaccine, Widal reaction following administration of, (20) **1029**
water borne epidemic of, (45) **1941**

TYPHUS, (60) **1365,** (75) **1621,** (15) 1686
among Russian prisoners in Germany, **448**
case of, ***951**
cause of, **1429—E**
checked, **2000**
defervescence of, **1664—E, 1867—C**
droplet infection of, and vermin, protect against, (119) **2028**
early history of pediculosis and, **1995—E**
epidemic meningitis simulating, (56) 1113
epidemiology and history of, (96) **1623**
etiology and prevention, (5) 2016
exanthematous, (125) **951**
exanthematous, agglutination test for, (82) **1366**
fighting, **1087, 1337**
garments to protect against, (52) **1801**

TYPHUS, hexamethylenamin in, efficacy of, (92) 1623, (92) 1949
history and epidemiology of, ***1805**
in Montenegro, **1436**
in Palestine, 1913 to 1914, (5) 2169
in Serbia, **1172, 1329—E, 1337, 1435, 1436, 1595**
in Turkey, **1925**
in war and famine, **1325—ab**
Johns Hopkins Hospital sends unit to fight, **1669**
Mexican, (98) 696
necropsy findings with influenza superposed on, (77) 1537
open-air treatment of, **1671**
personal prophylaxis against, (95) 1623
prophylaxis of, (25) 699, (43) 862, (130) 1692, (44, 58) **2103**
prophylaxis of, in army in field, **67**
recrudescence of, **1660—E**
typhoid, dysentery and cholera, war diseases, (19) **88**
typhoid, relapsing fever and malaria, resemblance of, (21) 472
vermin and, (81) **624, 1504—E**

U

ULCER, acute, experimental production of, (54) **2098**
bladder, in women, rare type of, (41) **1795**
continuous bath for open, (108) 626
cornea, (38) 616
cornea, complication and sequelae, (41) 541
cornea, following hat pin injury, ***659**
cornea, pneumococcus, (105) 1453
cornea, pneumococcus, prevention and cure of, (21) 2022
duodenum, (112) 1453, **1523—ab**
duodenum, chronic, (133) 544, ***2036, 2090—ab**
duodenum, chronic appendicitis, pylorospasm and, ***1845**
duodenum, diagnosis of, (2) 544, (135) **1040**
duodenum mucosa, acute, of dogs, experimental production of, by injections of epinephrin, (51) 1451
duodenum, operative treatment of, (60) 281, (52) **1619**
duodenum, perforating, (56) 945
duodenum, perforating, surgical treatment of, **465—ab**
duodenum, perforation of, retroperitoneal (22) 1450
duodenum, roentgenoscopy of, (93) 1537, **1873—ab**
duodenum, roentgenoscopy of stomach cancer and ulcer and, (52) 617
gastro-enterostomy for, (20) **1941**
leg, chronic, treatment of, (127) **180**
leg, severe anemia with, **2162—ab**
peptic, diagnosis and treatment from internists' viewpoint, (136) 180
peptic, etiology and pathology, (135) 180
peptic, Lenhartz' treatment, (40) **1876**
peptic, pathogenesis of, (114) **286**
peptic, roentgenoscopy of, (100, 101) 1360
peptic uncomplicated, medical management of, (71) 1274
skin grafts in, **465—ab, *558**
spirochetal infection of, in China, (61) 1358
stomach, (7) **1105,** (121) 1879
stomach and duodenum, (21) **1450**
stomach and duodenum, diagnosis, (146) 1362
stomach and duodenum, diagnosis and treatment, (38) 940
stomach and duodenum, etiology, diagnosis and treatment, (76) **1360**
stomach and duodenum, experimental, after severing sympathetic, (117) 626
stomach and duodenum, in Panama Canal laborers, (24) 1273
stomach and duodenum, medical cure by removal of gastric juice corrosion, ***1625, 2090—ab**
stomach and duodenum, operative procedures and motility and secretion, **1103—ab, *1745**
stomach and duodenum, operative treatment, (87) 1453
stomach and duodenum, perforated, (57) **541,** (2) **1449**
stomach and duodenum, roentgenology in differentiating between cancer and, (8) 271

ULCER, stomach and duodenum, simulation of, by adhesions, duodenal dilatation and visceroptosis, **536—ab,** (69) 2099
stomach and duodenum under experimental pyrodin anemia, (143) 952
stomach and jejunum, secondary, (29) **1106**
stomach and tetany, (64) **1198**
stomach cancer and occult hemorrhage with, (57) **1688**
stomach cancer and relationship of stomach, (2) **271**
stomach cancer simultaneous with, 2 cases, (75) 623
stomach, chronic, experimental studies in production of, (88) 1199
stomach, chronic indolent, surgical treatment, **535—ab**
stomach, diagnosis and prognosis of 500 operations, (129) 942
stomach, etiology and experimental production of, **1524—ab**
stomach, experimental, (94) 1367
stomach, hemorrhages from, (151) **627**
stomach, hour-glass stomach following, 41 cases, (41) **1277**
stomach, infection cause of rheumatism, endocarditis, arthritis deformans and, (50) 774
stomach, lesser curvature of, diagnosis and treatment of, (104) **1804**
stomach or duodenum, perforating, operative cure, (110) 1367
stomach, pathology of, treatment, (6) 1879
stomach, perforated, (5) 277
stomach, perforated, involving pancreas in diabetes, (107) 1118
stomach, perforated, prognosis and treatment, (74) 623
stomach, ptosis of liver from perforated, (80) 1949
stomach, pylorectomy and partial gastrectomy in, (119) **470**
stomach, surgical treatment of, choice of operation in, (68) **2099**
stomach, syphilitic, ***430**
vulva, rodent chronic, rapid healing under neosalvarsan, (74) **1802**

ULNA and radius, partial fusion of, (55) **623**
fracture of, with dislocation of head of radius, corrected by Lane bone plate, (67) **1615**
greenstick fracture of, and complete fracture of radius in children, (37) **1030**

ULNAR nerve, neuroplasty of, (80) **776**
nerve trouble due to tension from scar, (16) **1357**

ULTRAMICROSCOPE, distribution of colloidal metals in tissues after intravenous injection as revealed by, (80) **1280**

ULTRAVIOLET RAYS and diathermia, combined treatment with, (126) 951
and regeneration of pigment apparatus in skin of tritons, (70) **1279**
arrest senile gangrene, (106) 551
as germicide in preparation of plague vaccine, (18) 1024
effects of, (130) 697
for freezing injuries, (28) **699**
in after-treatment of wounds, (45) **1456**
in suppurating wounds, (72) **1279**
in tetanus, (91) **284,** (66) **1458**
vaccines made from germs after exposure to, ((116) 866

UMBILICAL colic, recurring, in children, (86) 92, (34) 700

UNICINARIA carinii, (103) 1538
infection at Ping Hsiang Colliery, Central China, (14) 466

UNICINARIASIS, (112) 778, (76) 1943
eradication of, and International Health Commission, ***1889**
rural school and, **267—ab**

UNCONSCIOUS mental phenomena, (97) 942

UNFIT, meaning of, (83) **618**
sterilization of, (97) 772

UNITED STATES Army: See Army, United States

UNITED STATES Civil Service Commission examination for physiologist, **1594**
government, peculiar method of disposing of material condemned as misbranded by, **1332—E**
navy medical corps, examination for, **1594**

UNITED STATES navy, specialists in medical corps of, advisability and practicability, (94) 1032
Public Health Service investigation of public health administration in West Virginia, 932—ab
Public Health Service may not have expert sanitary engineer, 841
Public Health Service report on von Ruck tuberculosis treatment, 347—E, 608—C
Public Health Service, sanitary investigations of navigable waters, 666—E
Supreme Court decision recognizing necessity in practitioner of sufficient knowledge to make diagnosis, 1431—E
UNIVERSITY: See also Colleges; Education; Schools, Medical
UNIVERSITY extension work for prevention of infant mortality, 79—ab
in Berlin, attendance at, 1259
of California, preventive medicine at, 169
of Minnesota and Mayo affiliation, (79, 81) 1193, 2009, 2072—E
of Utah, conditions at, 1180—C
URATE deposits, no effect on, from thorium x, (37) 1112
UREA, distribution of, in body, significance of, (48) 1876
extraphysiologic or putrefactive, (23) 938
in cerebrospinal fluid and ash in feces with atrophy of infants, (26) 781
in human spinal fluid, 1854—E, (77) 1876
nonprotein nitrogen and, of blood, and phenolsulphonephthalein excretion in infants and children, 2094—ab
urease test for, in body fluids, (74) 864
UREASE test for urea in body fluids, (74) 864
UREMIA, (12) 1190, (39) 1800
cerebral paralysis and, (31) 1196
convulsions due to, in acute nephritis, cured by opening vein in foot, (128) 94
oxygen and carbon dioxid in blood in, (75) 1884
relative frequency of coma with reference to, *1041
UREOMETER, Dormus-Hinds, use of, 1182
URETER, aplasia of left kidney and, (31) 2101
calculus, diagnosis and intravesical treatment, (95) 2020
calculus, impacted, treatment of, (104) 778
calculus in male, wax-tipped catheter in diagnosis of, practical method of applying, *2129
calculus in pelvic portion of, (28) 1880
calculus in right, simulating appendicitis, (90) 858
calculus, technic of removal, (133) 1361
catheter and phenolsulphonephthalein, separate kidney function determined by, *223
catheterization and kidney function, (127) 1033
defect repaired with loop of intestine, (28) 774
double, simulating parovarian cyst in right broad ligament, (18) 1798
duplication of bilateral, complicating operation for cancer of uterus, (26) 1034
duplication of kidney pelvis and, (24) 368
forking, with movable kidney, (71) 1883
in new-born infant, (71) 946
URETERO-ENTERIC anastomosis, (21) 1106
URETHRA, bullet in bladder extracted through, (44) 944
cancer of female, plastic work, 2015—ab
clamp for postoperative incontinence of urine, (107) 1878
intra-urethral breakage of vacuum electrode, *334
irrigation outfit for bladder and, (99) 371
posterior, and bladder, in chronic gonorrhea, 100 cases, (125) 1530
rupture of prostatic, (107) 1796
stenosis, instrumental dilatation of, (103) 1951
stricture, excision for, (4) 779
URETHRA, toxic symptoms in kidneys, bladder and, after wearing porous plaster, (58) 1278
tubes for intra-urethral medication, *1754
URETHRITIS, chronic posterior, treatment of, (135) 620
non-bacterial, (63) 1528
URETHROSCOPE, otoscope as anterior, (139) 620
URIC Acid: See Acid, Uric
URINAL, infant specimen, *1908
URINARY TRACT, acidity of, and beta-oxybutyric acid determination of, in recurrent vomiting, (47) 695
affections of, with diseases of female pelvis, (122) 1616
amebiasis, (10) 2022
bacteriology of, in children, (13) 1454
calculus, (132) 1797
calculus in child, (23) 2100
calculus, symptoms and diagnosis, (14) 88
calculus, treatment based on chemical composition, (9) 176
hexamethylenamin as disinfectant for, (106) 1118, 1519—C, (126) 2028
infections, chronic, in women, laboratory diagnosis of, 2092—ab
myiasis of, (148) 544
surgery of, recent work in, (41) 1946
surgical conditions of, value of chemical tests of kidney function in, *104
wounds of, (102) 1038
URINATION, frequent and painful, in women, causes, (22) 368
URINE, albumin in, spontaneously precipitated, (96) 275
alkaline, bulgaricus bacillus in cystitis with, 465—ab
bacillus coli in, in children, treatment of, (7) 698
benzoic acid in, estimation of, (76) 941
catalase in, in health and disease, (3) 466
children's, abnormal elimination of calcium in, (56) 701
children's diastatic reaction of, (115) 93
children's, elimination of iodin in, (53) 1535
children's, lipoid substances in, (49) 185
colloidal nitrogen in, in diagnosis of cancer, (123) 626
diabetic, pseudoleukulose in, (37) 944
Ehrlich's differential reaction in, in acute infectious diseases, (53) 1113
examining for salt, nitrogen and electrolytes, simplest methods, (94) 625
in acidosis, improved technic for study of, (63) 1948
in aged, (122) 697
in eclampsia, bacteriologic examination of, *145
in kidney ptosis, bacteriologic findings in, (10) 176
incontinence of, contradictory, with bladder tumors, (70) 947
incontinence of, in combatants, 1258
incontinence of, in women, (128) 858
incontinence of, nervous, in war, (18) 1455
incontinence of, postoperative, urethral clamp for, (107) 1878
measurement of, excreted by infants, (58) 91
nephritic, origin of proteins in, (13) 2017
normal, in chronic painful nephritis, (100) 1951
obtaining specimen of, from infants, *1908
odor of, 252—E
passage of alcohol into, (154) 380
protein, crystallizable, 669—E
proteins in, causes of error in determination of, (69) 475
reaction of, determination of, (168) 628, (125) 2028
red blood corpuscles in, of normal persons, (75) 476
retention of, from unsuspected calculus in prostate, (105) 1281
retention of, nervous, (50) 1365
retention of, with wounds of spinal cord in war, treatment of, (115) 1691
secretion of, in kidney, mechanism of, (57) 782
URINE sediment, technic for examining, (119) 626
specific enzymes in, diagnosis of pregnancy based on presence of, *1651
stagnation of, and development of pyogenic kidney infection, (75) 623
sterility of normal human, 915—E
sugar in, Haines' test for, 930
sulphur reaction in, with cancer, (70) 476
tube-casts in, mechanism of production of, (111) 286
tuberculosis bacillus in, and lung tuberculosis, (64) 941
tuberculosis bacillus in, significance of, *886
universal measuring tube for, elements in, (96) 1038
uric acid in, colorimetric estimation of, (61) 782, (83) 1877
urobilinogen content of, high, in appendicitis, sign of destructive lesions, (88) 1200
urochromogen reaction in, (108) 377
Weiss' potassium permanganate reaction in, (139) 2029
URINOID, 252—E
UROBILIN, Ehrlich's aldehyd reaction for, (96) 179
UROBILINOGEN content of urine, high, in appendicitis, sign of destructive lesions, (88) 1200
Ehrlich's aldehyd test for, (25) 774
UROCHROMOGEN differential test for typhoid, (49) 475
reaction in urine, (108) 377
reaction of Weisz unreliable in surgical tuberculosis, (139) 1693
UROLOGIC Institute, James Buchanan Brady, (52) 1876
operations, preparatory treatment of, (50) 1876
UROLOGY, hydrotherapy in, value of, *101
UROTROPIN: See Hexamethylenamin
URTICARIA, metabolism in chronic, (73) 618
papulosa, (21) 88
pigmentosa, histology of, (61) 1192
serotherapy limited, *737
UTA venomosa, case of, (28) 939
UTAH medical news, 600, 1336
state board April report, 2088
state board January report, 1184
University of, conditions at, 1180—C
UTERUS, adenocarcinoma of, complete removal of, by exploratory curettage, (135) 1110
amputation, high cervical, improved method of suturing flaps in, (5) 1875
anteflexion of, treatment, (13) 368
bicornis unicollis, gravid, perforation or rupture of, (92) 1529
cancer, (63) 84
cancer, cure of, by curetting for diagnosis, 466—ab, (133) 1111
cancer, diagnosis, early, (94) 1453
cancer, heteroplasia in, (2) 466
cancer in woman of twenty-four, 1102—ab
cancer, mesothorium in, (123) 1202
cancer of breast and, actinotherapy in, (97) 2027
cancer of breast and, radiotherapy and intravenous chemotherapy in, (99) 2027
cancer of cervix, bilateral duplication of ureters complicating operation for, (26) 1034
cancer of cervix, radiotherapy or operation, (104) 1111
cancer of rectum and, radium in, results of 23 cases, (144) 1111
cancer, Percy cautery in, (103) 2020
cancer, radium and roentgenotherapy in, (135) 1693
cancer, radium emanation in, (93) 1200, (14) 1276, (72) 1360
cancer, roentgenotherapy of inoperable, (121) 1282
cancer, surgical treatment, (123) 619
cancers, types of, 2092—ab
cervix, common diseases of, (93) 1274
cervix, laceration of, operations for, (43) 774
curette, 3 bladed, (64) 468
cystic tumor of, multilocular, (22) 1798
dilatation of cervix by means of bags, (64) 1032
displacements of, downward and backward, intra-abdominal dynamics and mechanical principles in cause of, (123) 469
UTERUS, displacements of, Gilliam operation for, 174—ab, (115) 2020
displacements, operations for, effect of, on subsequent labors, (55) 1273
displacements, posterior, surgical treatment, (17) 1272
displacements, traumatic acute, (7) 1874
double, with right pyocolpos, (24) 1798
fibroids, (137) 544, (92) 1453
fibroids and pyloric obstruction, (112) 1453
fibroids in pregnancy and labor, (84) 371
fibroids, menorrhagia and radium, (74) 1032
fibroids, pregnancy complicated by multiple, (114) 1360
fibroma, degenerated, and chorioepithelioma malignum complicating 2 months' pregnancy, (120) 1361
fibroma during pregnancy, minute, pain from, (94) 188
fibroma, sarcomatous degeneration of, 5 years after roentgentherapy for pressure and hemorrhage, *1653
fibromyoma, surgery or radiotherapy in, (116) 1033
fibromyomatous, with twin pregnancies, intolerance of, (100) 1201
gonorrhea of cervix, chronic, (92) 542
hemorrhage, arteriosclerosis and control of, (130) 1879
hemorrhage at and after menopause, (7) 1941
hemorrhage at puberty, (89) 371
hemorrhage, essential, 2160—ab
hemorrhage, pituitary extract in, (102) 696
hemorrhage, significance of, (9) 1526
implantation of ovary into, with resulting pregnancy, (23) 467
inertia, (138) 1275
inertia, relief of, (45) 1273, (58) 1795
infantile, (136) 1194
internal secretion of mucosa, none demonstrated as yet, (135) 552
inversion, (61) 371
inversion, acute, following labor, repeated, (17) 1686
inversion, complete, (100) 371
mucosa, glycogen content of, (133) 952
myoma and malignancy, (97) 85
myoma and menorrhagia, roentgenotherapy in, (83) 179
myoma and metrorrhagia, roentgenotherapy in, (53) 1528
myoma, histogenesis of, (81) 91
myoma of cervix, (98) 376
physiology and pharmacology of excised, (4) 1029
prolapse, 366—ab, (124) 2021, 2016—ab
prolapse, access to bladder with hysterectomy for, safe method, (59) 475
prolapse, interposition operation for, followed by abdominal cesarean section, complicated by placenta praevia, (88) 1032
prolapse, plastic surgery in, (51) 940
prolapse, Schauta-Wertheim operation for, ultimate outcome of, (123) 94
prolapse, Watkins - Wertheim - Duhrssen operation for, (99) 85
prolapse with pelvic relaxation, (124) 1110
puerperal, subinvolution of, causes and treatment, (120) 1616
retrodisplacement, 176—ab, (40) 1273, (12) 1276, (81) 1360
retrodisplacement, abdominal fixation of, and subsequent pregnancy, 38 cases, (22) 279
retrodisplacement, Alexander operation through Pfannenstiel incision for, modification of, 175—ab, (112) 2020
retrodisplacement, history of, (111) 2020
retrodisplacement in puerperium and in nulliparous women, (100) 275
retrodisplacement, intermittent irritation of bladder from, (133) 551
retrodisplacement, movable, (1) 1526

UTERUS, retrodisplacement of pregnant, (46) 1614
retrodisplacement, postpartum, (126) 1797
retrodisplacement, surgical treatment, 174—ab, 175—ab, (113, 114, 117, 118) 2020
retrodisplacement, surgical treatment, principles and practice in, (116) 2020
retrodisplacement, treatment of, (110) 2020
retrodisplacement, with simultaneous tubal and normal pregnancy and myomas of uterus, (101) 1623
rupture of, emergency treatment of ruptured extra-uterine pregnancy and, **1792**—ab
rupture of pregnant, through cicatrix of former cesarean section, 3 cases, (25) 1798
sarcoma, (144) **180**
sarcoma and fibroids, relationship between, (5) 1029
stab wound of pregnant, (142) **379**
support, pelvic fascia as, (2) **1526**
tonic, action of, on general circulation, (24) 1532
tumor, enormous, (80) 542
tumor, operative, treatment and radiotherapy of benign and malignant, (39) 474
tumor, stromatogenous, morphology and histogenesis of, (5) 1029
UVULA angioma, (80) 1274
papilloma, (79) 1274
tumor, (79) 1274

V

VACCINATION acts, failure of, (9) 1033
by-effects of, (96) **92**
chicken-pox, (79) **284**, (53) **700**, **1003—E**
cholera, (71) **186**, (95) **1200**
cholera, efficacy of, (72) 1536
diabetes after, (60) 1535
diphtheria, (110) 1952
eczema spreading through day nursery after, (45) 374
hay fever, active, (115) **697**
lodin and, (11) **1797**
of government employees, **1086**
of nurses, **1589**—ab
of schoolchildren, power of local bodies to require, **612**—MI
plague and pneumonia, (25) 2022
preventive, efficacy of, **1087**
required of matriculants in Austria, **1859**
small-pox, at Prague, (73) 1366
smallpox, lay views on, **1588—E**
tuberculosis, prophylactic, (84) 618, (6) **1616**
typhoid, (97) 92, (103) 93, (38) 178, (170) 182, (40) **280**, **450**, (46) **547**, (141) 697, (40) 944, ***1147**, **1259**, (73) 1536, (106) 1558
typhoid, agglutination after, (80) **2026**
typhoid, agglutination and deviation of complement tests after, (123) 1368
typhoid, agglutination test positive after, (100) **625**, (52) 862
typhoid and cholera, blood picture after, (82) 1949
typhoid, and immunity to infectious disease, (22) 861
typhoid bacilli found less frequently in blood after, (81) 1949
typhoid, entails leukopeny and eosinophils disappear, (72) 1930
typhoid, experimental research on, (27) **1618**
typhoid, in Belfort district, (21) **278**
typhoid, in British army, results of, **1171**
typhoid, in children, (151) 276
typhoid, in Italian army, **579**—ab
typhoid, in navy, **68**
typhoid, in typhoid epidemic, ***1147**
typhoid, New York Health Department experiences with, ***3**
typhoid, prophylactic, epidemic 3 months after, ***728**
typhoid, prophylactic, possibility of failure in, **2157—C**
typhoid, prophylactic, report of 2,000 cases with studies of Widal reaction, (51) **1528**
typhoid, protection of, (44) 1277
typhoid, reaction to, (108) 1691
typhoid, sequelae of, (48) **1942**
typhoid, technic for, (86) 1280, (83) **1366**, (55) **1688**
VACCINE, animal charcoal in research on, (94) 1950
anticolon bacillus serum and, in appendicitis, (9) **544**
VACCINE, antigonococcus, and serotherapy in gynecology and obstetrics, (31) **781**
antigonococcus, experiences with, (89) **784**
attenuation of virus in blood of cholera hogs to prepare, (89) 696
autogenous living, in typhoid, (2) **1530**
autogenous, preparation and use of, (66) **371**
bacterial, given before diagnosis is fully established, (84) 1615
bacterial, methods to standardize, with reference to hemocytometer, ***893**
catarrhal, utility of, (21) 368
colon bacillus, in acute infectious diseases, (50) 782
diplococcus, polyvalent, in gonorrhea, (134) 551
from germs after exposure to ultraviolet rays, (116) 866
increasing efficiency of, and producing antiserum, new method, (96) 1109
plague, ultraviolet light as germicide in preparation of, (18) 1034
serums and, (46) 541, (124) 950
sterilization of, with ether, (64) 475
treated with ether, unreliability of, (72) 702
typhoid, **665**
typhoid, mixed, and paratyphoid A and paratyphoid B, (7) 1944
typhoid, modification of, (71) 1690
typhoid-paratyphoid, mixed, Castellani method of preparing, (79) 1802
unheated, ***328**
virus free from bacteria, pure cultivation of, in vivo, (13) 2168
virus, pure, propagation of, (93) **1796**
VACCINE THERAPY, (98) 1878
acute suppurative infections, present status of, (98) 275
and chemotherapy for wounds in war, (33) **1800**
autogenous, cerebrospinal meningitis, (12) 943
autogenous, in pneumococcal infections, (15) 1531
autogenous, in sciatica, ***238**
bacterial, in diseases of lungs complicating lung tuberculosis, (49) **1614**
bacterial, in gonorrheal iritis, (109) **469**
bullous dermatitis caused by colon bacillus, (42) 1685
ear infections, (8) 272
erysipelas, **1868**
external, (78) **371**
furunculosis of ear, (22) **272**
gas gangrene, (68) **1801**
gonorrhea, (65) 375
guides in, ***402**
infections, (169) 182, (58) **1192**
mouth infection and, (59) 468
neuralgia and neuritis, (43) 184
pneumonia, early administration of, (6) 1275
practical, (21) 942
psoriasis, ***903**
pyorrhea alveolaris, (24) 2022
ringworm of scalp, (62) **1192**
scarlet fever, **929**, (5) **1111**
septicemias, (38) 1946
streptococcic sore throat, (103) 1878
suppurating wounds, (32) **621**
tuberculosis, (118) 372, (111) 1367
typhoid, **518—E**, (142) **697**, (96) 865, (129) 951, (109) 1039, (14) **1106**, (117) **1202**, (84, 85) 1366, (64) **1620**, (107) 1691, (55) 1882, (95) 1950, **2139—E**
typhoid, intravenous, (53) 2103
typhoid, Widal reaction following, (20) **1029**
whooping cough, (14) 2170
with non-specific bacteria, (114) 1367
VACCINIA, generalized, (16) 545
virus of, cultivation of, studies on, (57) **1359**
VACUUM electrode, intra-urethral breakage of, ***334**
method of drawing antihog cholera serum, (46) 2096
tube of Keidel in blood-culture work, ***822**
VAGINA, bacteria of, hemolysis of, influence of menstruation on, (73) **283**
boric acid injections, toxic action from, (102) 1367
congenital atresia of, 3 cases, (91) 1453
VAGINA discharges, pathologic, (45) 274
drainage, simple method for establishing, (141) **1362**
fibromyomas, (110) 1039
fusiform bacillus found in, (54) 1031
leishmaniosis of, (104) 1538
operations under local anesthesia, (115) 551
trichomoniasis of mouth and, (25) 1875
wire speculum, new, (4) 466
VAGOTONY, (109) **1952**, (29) **2171** and nervous symptoms in healthy, (61) **1536**
VAGUS and glossopharyngeal paralysis, progressive, with ocular ptosis, (72) **1274**
effect of homatropin on, (76) 1193
hypoglossal and sympathetic nerves, division of, by bullet, with formation of arteriovenous aneurysm of carotid, (18) 2100
nerve, division of pulmonary branches of, late effect of, on gaseous metabolism, gas exchange and respiratory mechanism, (29) 1794
nerve, gastric, vomiting evoked by stimulation of, heart inhibition during, (17) **1794**
nerve in neck, injury to, (41) **1534**
nerve, renal secretory fibers in, (28) 368
VAILLANT, LEON, death of, **68**
VAN GEHUCHTEN, ALBERT, an appreciation, 363—ab
death of, **269**, **680**
VAN SLYKE aminonitrogen determination in diagnosis of cancer, ***1559**
VARICELLA: See Chicken-Pox
VARICOCELE operation, incision for, with amputation of scrotum, (101) 942
resection of pampiniform plexus for, (114) **705**
VARICOSE vein, multiple ligation of, (92) **1803**
VARICOSITIES of pampiniform plexus, (46) 1795
VARIOLA: See Small-Pox
VARNISH as aid in extension and to fasten retention catheters, (125) 1692
extension with, (90) 1949
in dressing wounds, (58) 700, (104) 866
VAS DEFERENS, anastomosis of, to epididymis of opposite side for sterility, (161) 189
short circuit of, ***2127**
VASOCONSTRICTION, action of certain drugs on, (75) **1942**
VASODILATATION, threshold stimulus of cervical sympathetic nerve in relation to vasoconstriction, salivary secretion and, (19) 1794
VASODILATORS, ***1758**, ***1761**
VASOMOTOR center, **1659—E**
center, action of various drugs on, (33) **540**
disturbances of upper extremities with reference to thrombo-angeitis obliterans, (18) **938**
irritability and epinephrin infusion, (3) **2167**
mechanism in pneumonia, (17) **938**
nerves of duodenum, (23) **694**
nerves of portal vein, (7) 855
reactions of liver with reference to vasomotor nerves in portal vein, (74) **1942**
reflexes, characteristics of, (18) 1526
VASOREFLEX and vasotonic center, (5) **1190**
VASOTONIC and vasoreflex center, (5) **1190**
VEGETARIAN and mixed dietaries, biologic chemical and physical factors in, (104) 1281
VEGETARIANS, metabolism of, (37) 1358, **1425—E**
VEIN, femoral, pulse in heart disease, (22) **780**
in foot, opening cures uremic convulsions in acute nephritis, (128) 94
jugular, double internal, and high bifurcation of common carotid artery, (39) 1030
jugular, ligation of internal, in fulminating otitis media, mastoiditis and sigmoid sinus thrombosis, (86) 1032
VEIN of forearm, method of distending preparatory to intravenous injection for salvarsan administration, (166) **182**
portal, arteriovenous anastomosis of, wards off necrosis of liver after ligation of hepatic artery, (104) 625
portal, thrombophlebitis of, complicating gangrenous appendicitis, (62) 940
portal, vasomotor nerves of, (7) 855
varicose, multiple ligation of, (92) **1803**
VENA CAVA, ligation of, in puerperal pyemia, (96) 376
VENARSEN, **1780—P**, **2006—C**
VENEREAL DISEASES, (15) 88
and pelvic surgery, (4) 2016
clinics for, efficiency of, **2071—E**
control of, by health departments, (14) 1875
history of, (49) 700
in army, (104) 93, (121) 551, (58) 862, (60) 863, (84) 1280, (41) **1456**, (75, 85) 1949, **2081**, (29) 2101, (31) **2172**
in army, treatment of, (43) 90, (130) 551, (80) 624, (60) 1620, (75) **2026**
nature and heredity of, and influence on course of wounds, (58) 2024
necessity for seeking out source of, (50) 281
prophylactic packet in navy, **2007—C**
prophpylaxis of, (117) 949
prostitution and, (15) 774
reporting and control of, (15) 1875
VENESECTION and intravenous injections in infants, technic for, (108) **288**
blood corpuscles returned to vascular system after, **514—E**
VENODINE, **2155—P**
VENOM, rattlesnake, facts about, **2141—E**
VENTILATION, air we breathe, (73) 275
and heat, (25) 177
Commission, Chicago, report of, **681—E**
factory, and effect on worker, (138) 1797
fans used in, defects in, **1010**
heat, humidity and working power, **444—E**
results of work of commission on, (18) **1029**
theories and methods of, (115) 1530
VERA CRUZ, experience at, (150) 544
experience of surgeon during occupation of, (133) 620
sanitary work of army at, (99) 1109
sanitation of, and army camps during occupation of U. S. expeditionary forces, (19) 1029
VERACOLATE refused recognition by Council, **1440—P**
VERATRIN, experimental research with, on frogs, (106) **1624**
VERMIN, (95) **949**
extermination of, (79) 1115, (67, 69) **1366**, **2080**, (42) 2102
fumigating shed, (89) 1949
infesting soldiers, extermination of, (121) 551, (13) 860, (26) 861
proof over-garment, (87) 1366
prophylaxis of typhus and, (81) **624**, (119) 2028
sulphur wards off, (82) **1458**
turpentine exterminates, (62) **1457**
VERMONT medical news, **919**
state board January report, **931**
VERONAL, ***994**
in delirium tremens, (71) 702
poisoning, (84) **188**, (148) **627**
sulphonal and trional, relationship of, **1265—C**
VERRUGA PERUVIANA, did Prescott describe, **1677**
pathology of, (24) **1875**
virus of, experiments with, ***1124**
VERTEBRA, first cervical, partial luxation of, 3 cases, (14) 81
first cervical, subluxations of, (13) 81
gunshot wounds of, with complete paralysis, operative treatment, (44) 1035
spinal, artificial ankylosis of, (9) 81
VERTEBRATES, anatomy of, comparative microscopic, (119) 1039
VERTIGO, ***561**
and nystagmus, **594—E**
VERUMONTANUM, radical removal of, **745**
VESALIUS, (24) **540**, (69) **783** and Columbus, the age of discoverers, **248—E**

VESALIUS and experimental physiology, (76) 783
and da Vinci, anatomy of, (74) 783
church and science in time of, (70) 783
fourth centenary of, 57—E
illustrations in works on anatomy before and in time of, (72) 783
portraits of, (73) 783
revolution in anatomy realized by, (71) 783
works of, editions and commentaries on, (75) 783
VIERIO kegallensis cast, isolated from cases of paracholera, (17) 1880
VIBURNUM Compound, Hayden's, 359—P
VICE-PRESIDENT, power of, to contract for services of physician, 462—MI
VIENNA, medical courses in, suspension of, 361—C
VINCENT'S angina, (53) 774, (108) 1052, (28) 1358
angina, unusual course and complications of, (81) 1280
organisms, infection of middle ear with, (13) 1111
DA VINCI and Vesalius, anatomy of (74) 783
VIRCHOW-Langenbeck building, 1438
VIRGINIA health almanac, 1251—E
medical news, 160, 600, 1170, 1510
state board December report, 1268
VIROL, 683—P
VISCERA, autonomic reciprocal activities of brain and, *321
Iron content of, (21) 780
transposition of, (85) 1943, *1986
VISCEROPTOSIS: See Splanchnoptosis
VISION, acuity of, pupillary diameter and, (8) 856
acuity of, requirement as to, in soldiers, (51) 1688
anomalous nerve heads with good, (35) 1795
Commission on Conservation of, report of, (118) 1275
conservation of, (70) 469, (13) 1357, (126) 1616
conservation of, in movement for prevention of accidents, (141, 143) 1944
cortex, localization, histologic structure and physiologic function, (20) 2168
defective, Montessori education for children with, (1) 1944
disturbances in, among wounded, without objective findings in eyes, (97) 625
disturbances of hearing and, with gunshot wounds of head, (44) 1688
fields, changes in, result of vascular lesions in brain and optic nerves, *1549
fixation of moving object, (155) 380
focal localization along paths of, (31) 939
loss of, due to alternating transient monocular blindness, (12) 1940
of indirect seeing, importance for, (158) 380
perception, retention and production, (82) 2019
saving, with steeple skull, (69) 1948
VITAMINES, recent work on, (18) 1276
VITREOUS, extraction of metallic foreign body from, through scleral incision by giant magnet, (139) 697
loss of, in intrascapular cataract operation, prevention, (28) 616
VOCAL cords, paralysis of, functional, in soldiers, (76) 1556
organs in schoolchildren, (156) 1694
VOICE, defects of speech and, elimination of, (61) 83, (63) 541
sign in chorea, technic of elicitation, (6) 773
training of, (61) 701
troubles in singers, common, (101) 1796
VOLUMBOLOMETER and energometer in research on dynamics of pulse, (68) 1199
VOLVULUS of ileum, (130) 1944
sigmoid, intestinal obstruction due to, in child, *1744
VOMITING, blood-pressure during, (14) 695
dangers during, 1000—E
VOMITING, heart inhibition during, evoked by stimulation of gastric vagus nerve, (17) 1794
periodical, with acetonuria, pathology of, (61) 1948
postanesthetic, controlled by substituting pleasant odor for offensive smell of anesthetic, (91) 179
recurrent, beta-oxybutyric acid determinations in, and urinary acidity, (47) 695
uncontrollable, of infants, sweetened condensed milk for, (101) 285
unsuccessful attempt to provoke, (46) 274
VORTICELLA, reproduction of, and light, (3) 1189
VULVA, cancer of, radium in, (25) 861
leishmaniosis of, (104) 1538
pneumococcic infection causing extensive destruction of, *1239
tuberculosis of, (8) 1449
ulcer of, rodent chronic, rapid healing under neosalvarsan, (74) 1802
VULVOVAGINITIS, gonorrhea cause of, and curability of, in little girls, (141) 868

W

WALKING apparatus, extension, for fracture of femur, (26) 699
hemoglobinuria due to, (66) 702
WALLE-MUELLER method of lip-reading for adult deaf, (98) 777
WAMPOLE'S Perfected and Tasteless Preparation of an Extract of Cod Liver Oil, 1262—P
WAR: See also Army; Soldiers; Wounded; Wounds
WAR and advertisements for food, 2002
anthrax and, (45) 280
antiseptics in, (10) 183
babies, (42) 2023
biologic factors in production of, (39) 368
birth rate and, 1259
Brazilian physician's impressions of, (108) 1367
casualties among physicians in, 603, 920
crime and, 66
deceptive advertisements and, 65, 1861
disease during, prevention of, 842
drug addiction in times of, with supply of drugs cut off, (51) 622
drug supply and, 67
effects of, on civilian physicians, 66, 450, 1340
England at, medical notes on, 679, 1512, 2001
epidemics in, (89) 376, (32) 1112, (56) 1278, (49) 1535, (75) 2105
European, (17) 620
food supply and expense during, (54) 475
food supply during, (51) 862, (83) 1280, (60) 1689
French journals suspend publication until after, 161
hospital interns and, 603
hospitals and, 66
infant welfare during, provisions for, (46) 1197
insects and, (10) 620, (10) 943, (6) 1033, (4) 1530, (13) 1945
life and accident insurance and, (122) 551
McGill men on active service in, 523
medical history of, authoritative, 1776
medical impressions of, (130) 1039
medical profession and, (48) 700
medical schools abroad during, 65
medical service, 2152
medical students and, 2002
medico-surgical statistics of, 1671
military statistics of, 1009
neurology, (39) 280
nostrums and, 841
notes, 65, 161, 258, 353, 448, 523, 602, 675, 920, 1008, 1171, 1257, 1338, 1436, 1511, 1594, 1669, 1776, 1860, 1925, 2000, 2080
notes from The Journal for the belligerent countries, 1926
nurses' relief fund, 1339
nursing, (88) 625
operations of imperial insurance, 525
phlegmons, conservative treatment of, (72) 186
population and, 844
WAR, prisoners of, German and French invalid, exchange of, 1259
prisoners of, taking, (128) 1692
prophylaxis in, (80) 1537
protein supply during, (34) 1533
protection of children and, 1010
psychiatry and, (19) 2022
psychology of, (92) 275, (50) 1535
public hygiene and, 1437
publishing and, 1927
racial development and, 757
relief funds, 523, 1436
Roentgen rays in time of, (8) 471, (24) 699
scientific meetings of army surgeons and, 65, 1596
septic wounds in, prevention and treatment of, (6) 87
Servia-Turk, surgical experiences in, (65) 91
sexual problems of, 452
shell wounds in present, experiences of, (7) 471
students in, 452
surgery, pathology of, *2045
surgical experiences at western seat of, (86) 1199
tetanus antitoxin during, use of, 67
tropical diseases in Europe during, danger of, (46) 781
Turko-Balkan, hospital service in, (64) 1452
Vienna physicians and, (95) 284
WART: See Verruca
WASHINGTON medical news, 352, 601, 1337, 2078
state board January report, 1677
WASSERMANN REACTION: See Reaction, Wassermann
WASTE, disposal of, in rural districts, 2074—E
WATCH, wrist, driven into arm by bullet, (75) 549
WATER, *1761
and salt, importance of, for normal digestion, (30) 474
and salt metabolism in healthy, experiments in, (46) 90
as physiologic tonic, (127) 1943
bacteria in, 20 degree and 37 degree plate counts for enumerating, (17) 466
bite among soldiers in trenches, 1173
boiling, injection of, in angiomata, Wyeth method, 464—ab
boiling, injection of, into enlarged thyroid in goiter, (117) 469, (117) 1361, (70) 2019
chlorin content of drinking, 152—E
contamination of, salt fever and sugar fever in infants from, (25) 1617
distilled, general use of, (78) 542
drink plenty of, (93) 777
hemlock, poisonous principles in, 1769—E
impounded, and malaria, (141) 1194
mineral, American, (95) 1796
mineral, and the wounded, 1777—ab
mineral, drinking of, 595—E
mineral, of foreign source and German practitioner, (46) 1881
mineral, radio-activity of, at Virginia Hot Springs, (40) 939
mineral thermal, beneficial action of, on the heart, 1366
purity of streams should be preserved, (156) 544
radio-active, for control of faulty elimination, (76) 1032
radium, and radium emanations, recent applications of, (99) 1574
salt added to, for bacteriologic analysis, (21) 1363
sanitary investigation of navigable, by United States Public Health Service, 666—E
sterilization and emergency filtration of, technic for, (26) 2101
sterilization, emergency, (47) 2103
sterilization of, by chlorin, (10) 1945
sterilization of drinking, by calcium hypochlorite in field, (100) 110
sterilization of, for surgical purposes by mercury vapor lamp, (39) 1112
sterilization of surface, in field, (79) 1690
supply at Antwerp after waterworks were destroyed, (114) 551
supply, domestic, and disease, (139) 276
WATER supply in villages entered by soldiers, (70) 1199
to be boiled on vessels on Great Lakes, 675
ways, sanitary control of, (181) 87
with meals, desirable influence of, 59—E
WATERBURY'S Compound, 1016—P
WATERMAN Institute cure for epilepsy, 847—P
WATKINS-WERTHEIM-DUHRSSEN operation for uterine prolapse, (99) 85
WAYNE, medical records of Indian campaigns of, (86) 1529
WEATHER and air-borne infectious disease, (24) 88
effects of, on pain, comfort and efficiency, 747—E
WEIGHT, drop in, with rise of temperature in new-born infants, (26) 1532
normal standards of, (75) 1037
postnatal loss of, in infants and compensatory overgrowth following, (16) 1526
WEIL'S disease, epidemic of, (117) 1878
WEISS' potassium permanganate reaction in urine, (139) 2029
action in urine, (139) 1693, (139) 2029
WESLEY, JOHN, Primitive Physic of, *629
WEST intranasal partial resection of tear sac for dacryocystitis, (32) 467, (146) 1944
WEST VIRGINIA medical news, 754, 919, 1924, 2000
state board July report, 74
state board October report, 74
WHEAT bran, enzyme phytase in, hydrolysis of phytin by, (73) 1876
bran, hydrolysis of organic phosphorus compound of, by enzyme phytase, (74) 1876
bran, organic phosphoric acid compound of, (72) 1876
bran, phytin in, (75) 1876
starch in prescriptions, Dermatologische Wochenschrift asks physicians not to order, 1511
WHEY in infant-feeding, (4) 773
WHITE SPOTS in mouth sign of syphilis, (24) 2171
on finger nails, 930
WHOOPING-COUGH, (115) 180, 434—T, (122) 1187, (119) 1943
epidemiology of measles, scarlet fever, diphtheria and, in Cleveland for 1913, (26) 368
optic neuritis with, (120) 1943
serodiagnosis of, (74) 371, (36) 2097
vaccine therapy of, (14) 2170
WIDAL reaction following administration of typhoid vaccine, (20) 1029
reaction, report of typhoid prophylactic vaccination in 2,000 cases with studies in, (51) 1528
WIFE partakes of attributes of husband through medium of semen, (99) 469
WILBRAND test with new clinical instrument, topical diagnostic and psychiatric value of, (6) 1357
WILL, capacity for making, and monomania and insane delusions, 1355—MI, 1606—MI
contest of, opinions of attending physicians and others as to mental capacity in, 462—MI
WILLARD GIBBS medal awarded, 1435
WINDSOR Laboratories, 847—P
WINE of CARDUI activities, 744—E, 761—P, 1014—P
Louisiana legislature endorses campaign against, 2085—P
WINIFRED Masterson Burke Foundation, convalescent group, (103) 1194
WINOX, testimonials for, method of obtaining, 1088
WINTER health resorts still available in Europe, (41) 622
seaside resorts, climate of, (73) 186
WINTERNITZ, W., 80th birthday, 1256
WIRE extension from heel, (98) 704
platinum, nichrome as substitute for, in bacteriologic inoculators, *1069
WISCONSIN medical news, 352, 521, 601, 754, 920, 1007, 1170, 1337, 1434, 1510, 1775

WISCONSIN state board January report, **1783**
state board October report, **460**
WITHERING, WILLIAM, and digitalis, **1993—E**
WITNESS, expert, from standpoint of attorney, (14) 368
expert medical, in American jurisprudence, (17) 368
expert official medical, (15, 16) 368
expert, questions asked, including element of experience in, **768**—MI
expert, refutation and cross-examination of, use of medical books in, **1356**—MI
expert, rights and duties of physician in court, (147) 1879
WOMEN appointed army surgeons, **1926**
as factor in strength of nation, (107) 625
careers for, due to war, **922**
industrial factor in diseases of, (61) 468
medical students, Russian, called on for professional services in field hospital, **1926**
medical study for, in Vienna, **73**
physician decorated for bravery, **65**
physicians, increase of, **2153**
students during war, **1927**
WOOLEN underclothes, mycosis of skin from, (39) **184**
WORK, circulation rate in man at rest and, determination of, (28) **1795**
effect of, on percentage of hemoglobin and number of red corpuscles in blood, (27) **1795**
in tuberculosis and administration of tuberculin, (35) **2023**
WORKMEN'S compensation law and hernia, (145) **380**, (86) 1360, (34) **1451**
compensation law and physician, (91) 1360
compensation, neurotic disturbances after accidents and, (96) 469
WORMS, Brazilian nematelminth, (81) 1803, (108) 1952
in appendix, pathologic meaning of, (30) **1799**
WOUNDED: See also Soldiers; War; Wounds
WOUNDED, after care of, social economic importance of, (43) **475**
antitetanus serum for, (49) 1036
area, localization of dropsy in, (26) **1456**
care of, and orthopedic institutions, **525**
care of, at front, (44) 546, **1341**
care of, exposition on, **353, 525, 844, 1860**
care of, history of, **844**
crippling among, measures to prevent, (21) **1532**
dental protheses for, (58) 1535
diathermy for, (73) 2025
disturbances in vision in, without objective findings in eyes, (97) 625
electric devices in treatment of, (38) 1881
evacuation of, **1863**
functional paralysis in, electrotherapy in, (52) **2024**
German, **1174**
home comforts for, **260**
hospitality for relatives of, **667**
in Paris, quarters for, **65**
Indian, hospital accommodation for, in England, **449**
mechanotherapy for, (48) 1688, (121) **1692**
mortality, low, among, **679**
Moslems, assistance for, **355**
nervous troubles among, **1340**, (56) 1365
orthopedic treatment of, (83) **1037**
prisoners, exchange of, **1089, 1860**
severely, to lift, (46) 1112
society for aiding, activity of, **451**
society for facilitating communication between families and, **163**
soldiers and voluntary hospitals, **843**
spa treatment of, (32) 2171
specialist treatment for, organization of centers for, **1010**
stretchers for, in trenches, (34) 373
stretcher to carry, from field, (122) 2028
thermal stations and, **1777**
transfer of, in France, **755**
transmission to families of news of, **451**
transportation of, **604, 923, 2151**
transportation of, automobiles for, **1258**
WOUNDED, transportation of, directions for, (104) 1038
treatment, **261**
treatment and care of, in war, (36) **1875**
treatment of, on board "Tiger" during naval action, (28) **1945**
WOUNDS: See also Soldiers; War; Wounded
WOUNDS, abdomen, (45) **474**, (79) 703, (60) **863**, (98) 948, (111) 1031, (121) 2028
abdomen and thorax, penetrating, (132) 860
abdomen, penetrating, treatment of, **1862**
abdomen, prognosis and treatment of, (67) **1802**
accidental, new method of treating, (96) 1453
adhesive plaster dressing in, (47) **1801**
and diseases following, after-treatment of, **1597**
aneurysms from, in war, (67) **863**, (97) 948
antiseptic substances for treatment of, experimental studies of, ***2123**
arm, injuries to arteries in, (45) 1688
arteries, (86) 275
arteries, infected, (82) **1116**
aseptic and antiseptic treatment, **1257**
bacterial infections of, treatment of, (29) 1880
bacteriology of, in war, **438**—E, (16) 2101
bayonet, of lung, (87) **1950**
blood-vessels, (90) 549, (89) 1367
brace for extension in, of long bones, in war, (94) 92
brain and spinal cord, in war, (63) **1278**
brain, psychic deficiency after, symptoms of, (64) **1802**
bullet, through left thigh, arteriovenous aneurysm of femoral vessels following, (24) 545
camphor in, (95) **1459**
charcoal and sugar for dressings of, prehistoric use of, (78) 375
charcoal cotton in dressing, **1671**, (57) **2104**
chemotherapy and vaccine therapy for, (33) **1800**
colloidal gold in, in war, (40) 861
decubitus in traumatisms of spinal cord caused by, prevention of, **2082**
diathermy in, (67) 1948
draining of deep, siphon device for, (99) **1280**
dressing for, medicated peat as, (76) 702
dressing station in France, (2) 2169
dumdum bullet, (74) 1366
ear, (80) 1457
ear, nose and throat, (47) **1197**
esophagus, (68) 863
extremities, (58) 623, **1863**
eye, during war, (60) 375, (87) 376, (31) 474, (98) 550, (91) 864, (98) 1280, (37) **1881**, (54) 1882
eye, during war, sympathetic ophthalmia from, (78) 864, (78) **1622**
eye, increase of, over those in previous wars, (68) 1457
eye, treatment of, (16) 278
eyeball, penetrating, conservative treatment of, (99) 858
foreign bodies in, extracting by hydrogen peroxid, **603**, (35) 861
fracture of long bones with, (98) 1038
from grenade fragments, (73) 1115
from navy signal pistol, (80) 1199
fungus infection of wounds, (43) **1277**
gangrene of lungs after, in war, (86) 1366
gangrene of, salvarsan intravenously in, (41) 546
gangreneous and phlegmonous, artificial gastric juice in, (57) **1535**
gangrenous, treatment of, in war, (39) **862**
gasoline followed by iodin sterilizes, (41) 1618
genital organs, **1089**, (53) 1198
greased tulle for, **1777**
gunshot, abdomen, (85) **625**
gunshot, abdomen, compressive dressing in, (134) **1692**
WOUNDS, gunshot, abdomen, penetrating and perforating, (122) 180, (127) **1275**
gunshot, and modern firearms, (30) **1456**
gunshot and shell, (86) 179
gunshot and shell, complicated, diagnosis of, (77) 1690
gunshot and shell, liquid glucose and phenol in, (23) **1880**
gunshot, aneurysm from, **679**
gunshot, blood vessels, (50) 862
gunshot, brain, meningitis from extension to ventricles of suppuration following, (114) 2027
gunshot, calves, (62) 375
gunshot, ear, (44) 1192
gunshot, femur, treatment of, (39) 944
gunshot, fracture of long bone due to, extension in, (11) 778
gunshot, head, (1) 1033, (41) 1035, (79) 1529
gunshot, head, disturbances of hearing and vision with, (44) 1688
gunshot, hemorrhage after, (82) **2026**
gunshot, humerus, treatment of, (33) **1364**
gunshot, in Scottish general hospital, (18) 943
gunshot, intracranial pneumatocele following, 2 cases, (115) 2027
gunshot, knee, (53) 541
gunshot, ligation of common carotid after, (88) **1950**
gunshot, liver, accumulation of bile in peritoneal cavity after, (54) 862
gunshot, lungs, (84) 284, (86) **864**, (86) **1950**, (71) 2025
gunshot, nerves in limbs, clinical and anatomic conditions in, (47) **1278**
gunshot, of soft parts, (19) 183
gunshot, peripheral nerves, (103) **2027**
gunshot, Peruvian balsam for, (87) 284
gunshot, roentgenography in diagnosis of, value of, (5) 183
gunshot, seton treatment for path of, (31) **861**
gunshot, small, where bullet entered and large where it emerged, 3 cases, (46) 184
gunshot, spinal cord and brain, (101) 949
gunshot, spinal cord, indirect, (93) 1950
gunshot, stomach and intestines, operative treatment, (150) 697
gunshot, tangent, of skull, treatment of, (64) 186
gunshot, thorax, (88) **864**, (102) 949
gunshot, treatment of, (43) 280, **357**
gunshot, vertebral canal with complete paralysis, operative treatment, (44) 1035
gymnasium work to hasten recovery from, (70) 1366
head, by balls and fragments of shell, **2002**
head, spasms after, orthopedic treatment of, (115) **950**
heart, caused by fragment of grenade with extraction of projectile, **1927**
heliotherapy for, in war, (56) 91, (111) 551
hematoma, aneurysmal, secondary diffuse, after, (53) 1036
hemorrhage from, (70) 863, (36) 1456
hemorrhages, secondary, in war, **163, 524**
hydrogen dioxid for, (44) 1456
in battle, **259**
in cataract extraction, delayed healing of, treatment, (131) 180
in present war, (42) 1800
infected, (84) **1038**, (20) 1880
infected and gangrenous, treatment of, **1515**
infected and non-infected, application of strong antiseptics to, (10) **1195**
infected and trauma, (51) 1882
infected, factors in treatment, (11) 1879
infected, iodized charcoal in, (55) 1198
infected, open treatment of, ***1829**
infected, salt solution and healing of, **1765**—E
infected, treatment of, (4) 1616, (14) 1617, (10) 1686, (24) 1687, (9) **1944**, (18) 1945
WOUNDS, infection of blood by anaerobic organism secondary to, (16) **1617**
intestine, (72) 1115
intestine, treatment of, in war, (48) 1800
jaws, (29, 48) **474**, (54) 782, (91) 948
jaws, prothesis after, early and adequate, (79) 1457
joints, after-treatment, especially of shoulder, (120) 551
joints and bones in war, (54) **1113**
light and air aids in healing suppurating, (87) 549, (95) **550**
light in, intensive artificial, (57) **1114**
liquid paraffin in, in war, (69) 1891
liver, transpleural, bile pleurisy from, (66) 1948
lungs, (66) 623, (55) 1113, (37) 1456
lungs, experiences with, (43) **1113**
lungs, tardy pneumothorax after, (73) 1457
median nerve, pain after, (27) **1456**
methyl violet in local treatment of, (93) 1623
military physician with ninety-seven, **677**
modern projectiles, (148) 2029
nerve concussion due to bullet and shell, (5) **544**
nerves, curve of reaction of degeneration in estimation of injury and prognosis in, (34) **1800**
nerves, electric treatment of, improved apparatus for, (50) **1036**
nerves, in war, (47) **474**, (37) **862**, (48) 945, (46) **1277**, (52) 1365, (33) **1618**
nerves, in war, calf's artery as protecting sheath, (85) 1199
nerves, in war, electric tests and vital staining in examining, (50) 1197
nerves, treatment of, (27) 1112, (70) **1115**, (52) 1198
nervous system, (95) 92, (66) 549
nervous system, tardy effects of, (91) **1950**
nose, sinuses, throat and larynx, in war, (45) **1881**
oiled silk for burns and, (25) **1456**
operative, open, iodin treatment in, (107) 1460
orbit, operative treatment, indications for, (27) 699
osteomyelitis of spine after, (45) **1882**
oxygen, subcutaneous injections of, dosage and technic, (54) **2024**
pelvis, extension in treatment of, (112) 1201
peripheral nerves, in war, (64) 1278, (68) 1366, (61) 1456, (68) 1689, (89) 2026, (43) **2103**, (20) **2171**
peripheral nerves, in war, early operative treatment, (33) **474**, (46) 1800, (78) 2025
peripheral nerves, treatment, (28) **2101**
polyvalent serum for, direct application of, (36) 1277
potassium permanganate in tetanus-infected and sloughing, (20) **372**
produced by German artillery projectiles, phosphorus in, **1089**
received in battle, ***1224**
roentgenotherapy of, (56) 91
salicylic acid in, (7) **1033**
salt solutions in treatment of, **912**—E, **1765**—E, **2152**
septic, embalmment of, (23) **861**
septic, injection of fresh human blood serum to arrest hemorrhages in, (102) **704**
septic, prevention and treatment of, (6) 87, (8) 2169
serotherapy of, (25) 2101
shell, in present war, experiences of, (7) **471**
shell, indirect, (40) **90**
shell, left shoulder, (39) 2022
shrapnel, basophile granules in blood after, (89) **864**
skull, (57) 475, (91) 549, (118) 551, (84) 1690, (113) **2028**
skull, grazing, (71) 1199, (62) **2104**
skull, grazing, operative treatment of, (64) **2025**
skull, tangent, (90) **948**
skull, treatment of, **1862**
soft parts, treatment of, (63) **1536**
soil-contaminated, principles in treatment, (27) 1196
spinal cord, early cystostomy in, advantages of, (102) **1038**

WOUNDS, spinal cord, in war, (88) 948, (101, 105) 1039, (123) 2028, (37) 2102
spinal cord, in war, laminectomy for, (35) 1533
spinal cord, in war, retention of urine with, treatment of, (115) 1691
spinal cord, lower end, (107) 1039
spinal cord, operative treatment of, (84) 624
spine, by shrapnel, low temperature with, (12) 860
stab, of heart and lung, (95) 1117
stab, of pregnant uterus, (142) 379
statistics of, received in war, 355
stay stitch for deep, *1317, 1781—C
sterilization of, (103) 550
suppurating, open treatment of, (83) 1457
thermal mineral waters, beneficial action of, (72) 1366
thigh, treatment of, (51) 782
thorax, in soldiers, 1512
thorax, treatment of, 1862
treatment, 162, (87) 625, (12) 1880
treatment by Danysz method, 1341
treatment by very dilute antiseptic solutions, 677
WOUNDS, treatment of, common errors in, (63) 375
treatment of, in war, (13) 277, (15) 278, 756, (86) 1116, (22) 1196, (62) 1801, (27) 1945
treatment of open, (52) 1882
treatment, on battle-field, (74) 91
trioxymethylene gauze for, (26) 89
ultraviolet rays in after-treatment of, (45) 1456
ultraviolet rays in suppurating, (72) 1279
urinary tract, (103) 1038
vaccine therapy for suppurating, (32) 621
varnish in dressing of, (58) 700, (104) 866
venereal disease and course of, (58) 2024
war, 3 months' experience with, (36) 374
WRIST, accidents with overstretching of elbow and, (47) 700
Madelung's deformity of, (35) 1527
semilunar bone of, luxation of, 3 cases, (57) 1198
trauma of, disturbance in growth and deformity 10 years after, (93) 625
WRITERS' cramp and wryneck, massage in, (17) 1357
cramp, mechanical devices for overcoming, (91) 92
WRITING with teeth after loss of arms, device for, (57) 2024
WRY NECK: See Torticollis
WYETH method of injection of boiling water in angiomata, 464—ab
WYOMING medical news, 920, 1255

X

X-RAYS: See Roentgen Rays
XANTHIN calculus, case of, (102) 469
XANTHOMA in young man, (46) 1946
XANTHOMATOSIS in calcified lipoma, (101) 1538
XANTHOSARCOMAS of tendon sheaths and joints, (62) 623
pigmented gaint-cell, of dorsum of foot, (41) 1364
XENODIAGNOSIS, 2174—ab
XERODERMA, genito-dystrophic, due to deficient functioning of sexual glands, (101) 1117
pigmentosum, (138) 2021
pigmentosum following severe sun exposure, (60) 1192

Y

YANKAUER eustachian applicator, breakage and removal of, *430
operation for overflow of tears, (122) 1879
YAWS: See Frambesia
YEASTS, agglutination test for differentiation of, (40) 184
YELLOW FEVER, etiologic factors in, (131) 620
etiology of, possible rôle of monkeys in, 1003—E
in Guayaquil, Ecuador, (1) 372
measures against introduction of, into India, (23) 1363
on United States ship Jamestown in 1866-67 at Panama, (137) 620
parasite of, (30) 1276
parasite of, and erythrocytes of guinea pigs, (30) 373
pathology of, in guinea-pigs, (30) 1034

Z

ZINC sulphate, *2065
ZOOPARASITE, rare, in man, 1769—E
ZORAB operation for glaucoma, (101) 1529

AUTHOR INDEX

In this Index, as in the Subject Index, the black-face type refers to reading-matter in THE JOURNAL; the light-face to articles in other journals and not abstracted in the Current Medical Literature Department. The asterisk (*) preceding the page reference indicates that the original article appeared in THE JOURNAL. The numbers in parentheses indicate the numbered paragraphs on the pages referred to. The numbers not in parentheses indicate pages.

A

Aaron, C. D., *1845, 1873
Abbe, R., (74) 1032
Abel, J. J., 2163
Abell, C. E., (87) 1032
Abelmann, H. W., (45) 77, *1315
Abrahams, A., (33) 1196, 1731, 1935
Abrahams, H., (26) 1527
Abrahams, R., (124) 180, (73) 1615
Abt, I., 1060, 1387, 1465, 1636, 1900
Acel, J., (84) 549, (93) 948
Ach, A., (54-57) 548
Achard, C., (35) 374
Achard, H. J., (94) 696
Ackert, J. E., (58) 1615
Acosta-Sison, H., (108) 1529
Acton, H. W., (28) 621, (18) 1363
Adachi, S., (102) 376
Adair, F. L., (8) 1526, (9) 1874
Adam, C., (52) 185, (87) 376, (31) 474, (98) 550, (81) 703, (78) 864, (54) 1801
Adam, J., (33) 944, (13) 1111
Adam, L., (43) 1800
Adami, J. G., (115) 469
Adams, C. F., (128) 1797
Adams, G. S., (96) 1878
Adams, J. B., (40) 1196
Adams, J. E., (28) 1880
Adams, R. C., (73) 1796
Adams, Z. B., *26
Addas, T., *1130, (15) 1190
von Adelung, E., *241
Adie, H., (15) 1363
Adler, H., 1873
Adler, H. M., (51) 83
Adler, L., (93) 1200
Adler, L. H., Jr., 1101
Adler, S. H., *658
Adloff, P., (91) 948
Ahlfeld, F., (71) 283, (89) 1200, (108) 1201, (104) 1691
Ahman, G., (87) 2106
Ahrens, B., (76) 284
Aikin, J. M., (8) 1793
Aikins, W. H. B., (157) 1944
Aikman, J., *731
Ainsworth, F. K., (108) 1796
Aird, J. A., (37) 2096
Akerman, J., (145) 380
Albee, F. H., (112) 1032, (6) 1105, (60) 1615
Albers-Schönberg, H. E., (52) 1456
Albert, H., (52) 1192
Albray, R. A., (90) 1453
Albrecht, H., (98) 1201
Albu, A., (76) 282
Aldershoff, H., (106) 1538
Alderson, H. E., (18) 368
Alexander, E. G., (27) 1940
Alexander, E. W., (23) 774
Alexander, K., (92) 92
Alexander, R. C., (4) 1797
Alford, H. J., (31) 1945
Alford, L. B., (31, 32) 369
Alglave, P., (25) 1456
Allen, C. W., (80) 371, (123) 543, (136) 1361, (121) 1879
Allen, F. M., (10) 856
Allen, G. W., (114) 1530
Allen, H. E., (109) 543
Allen, H. R., (64) 1615
Allen, I. O., (52) 2019
Allen, J. D., (66) 371
Allen, L. C., (13) 1450
Allen, S. E., (32) 2019
Allen, W. E., (87) 1943
Allison, N., *391, (6) 1611
Allport, F., (109) 1878
de Almeida, A. O., (5) 2167
de Almeida, W., (119) 1202
Almkvist, J., (159) 627
Alpers, W. G., (51) 1107
Alsberg, C. L., (49) 467
Alter, F. W., *1909, (13) 1940
Alter, W., (75) 863
Althoff, H., (94) 549
Alvarez, W. C., (26) 1794
Amann, J. A., (35) 474, (62) 1114
d'Amato, L., (144) 952
Amberger, (51) 1619
Ambrose, O. A., (47) 774
Am Ende, (75) 2105
Ames, A. C., 1931
Ames, T. H., (74) 2019
Amesse, J. W., (27) 540
Ameuille, P., (54) 622, (55) 1688
Amoss, H. L., (36) 369, (70, 71) 1795
Amstad, R., (53) 1535
Anchersen, M., (89) 2106
Anderes, E., (24) 1532
Anders, J. M., 1101
Anderson, J., (17) 1196, (10) 1454
Anderson, J. F., (21) 1029, (5) 2016
Anderson, J. H., (139) 1110
Anderson, R., (127) 858
Anderson, R. J., (72-75) 1876
Andreae, M. D., (105) 188
Andreotti, M., (103) 1623
Andrews, H. R., (7) 943
Andrews, V. L., *1306
Andries, J. H., (82) 1032
Andries, R. C., (38) 857
Angerer, A., (90) 1623
Anglesio, B., (114) 286
Antonelli, G., (129) 94
Anzinger, F. P., *1908
Aoyama, T., (37) 781, (130) 1202
Aquino, P. B., (117) 1367, (144) 1694
Arantes, J. B., (127) 379
Archambault, L., (1) 1939
Archer, C. W., (4) 1453
Arena, G., (125) 378
Arkin, A., (32) 2096
Arkin, L., (44) 1795
Arkwright, J. A., (10) 1362
Arluck, S. S., (121) 1943
Armknecht, W., (113) 1691
Armstrong, D. B., (25) 467, (22) 1874
Armstrong, G. E., (142) 180
Armytage, W. B. G., (27) 1034
Arnd, C., (49) 374
Arnold, D. P., (127) 942
Arnold, H. D., *329, 854
Arnold-Larsen, A., (151) 380
Aron, E., (78) 947
Aronovici, C., 1675
Arrowsmith, H., (81) 1274, (69) 1685
Arzt, L., (71) 186, (55) 475, (128) 551, (95) 1200
Aschheim, S., (135) 552, (133) 952
Ascoli, M., (121) 866, (54) 2106
Ash, J. E., *11
Ashby, H. T., (2) 1685, (4) 1944, (6) 2022
Ashford, B. K., *810, *1893
Ashford, F. A., (95) 1032
Ashhurst, A. P. C., (104) 619
Ashley, D. D., (96) 1274, (77) 2019
Ashley, R. W., (84) 1685
Aspinwall, F. E., (99) 1943
Asplund, G., (134) 1202
Astley, G. M., (112) 1274
Atchley, D. W., (8) 2016
Atkinson, E. L., (5) 860
Auban, (25) 183
Aubertin, C., (19, 21, 24) 780, (41) 944, (28) 1456
Aubourg, P., (46) 622
Aubrey, G. K., (34) 373
Auer, C., *586
Auer, E. M., (88) 1274, (139) 1797
Auer, J., (34) 369
Auerbach, S., (64) 1278
Aufrecht, E., (73) 1037
Augustine, J. L., (52) 1942
Auregan, (23) 1196
Aust, (64) 1620
Austin, J. H., (126) 276, (2) 614
Austregesillo, A., (151) 1694
Auten, F. E., (15) 1940
Auvray, M., (45) 1197
Avery, O. T., (63) 775
Avoni, A., (91) 188
Axenfeld, T., (76) 1690
Axenow, L., (50) 1113
Axtell, J. T., (68) 274
Ayer, W. D., (2) 1939
Ayres, O., (83) 1803
Ayres, W., (70) 857
Azara, P., (116) 378

B

Babbitt, E. C., *287
Babbitt, J. A., (23) 272
Babcock, R. H., (90) 941, (69) 1274, *2115
Babcock, W. W., *203
Babinski, J., (113) 1460
Babler, E. A., *719, (23) 1940
Bach, W., (53) 541
Bachem, C., (55) 1801
Bachmeyer, A. C., (43, 49) 2019
Bacigalupo, J., (82) 1280
Backer, (95) 549
Backman, E. L., (153, 159) 380
Bacon, C. S., *2048
Bacot, A. W., (19-21) 1034
Bacri, (31) 1618
Badertscher, J. A., (2) 1272, (2) 2016
Baehr, E. M., (70) 371
Baer, J. L., *1723
Baetjer, W. A., (55) 940, (24) 1612
Baetzner, W., (67) 282
v. Baeyer, H., (93) 92, (115) 949
Baggio, G., (106) 1281
Baginsky, A., (128) 951, (58, 59) 1948
Bahr, P. H., (3) 942
Bahrdt, H., (111) 93, (76) 187
Bailey, H. C., (23) 1272
Bailey, W. F., (28) 939
Bainbridge, W. S., (16) 82, (11) 466, (80) 1032, (117) 1530, (121) 1797
Baird, A. W., 1519
Baird, R. W., (137) 942
Baitsell, G. A., (67) 1795
Baker, A. E., (150) 276
Baker, A. W., (16) 620
Baker, C. H., (65) 468
Baker, D., (3) 1939
Baker, F. H., (14) 1875
Baker, O. C., (172) 87
Baker, V. C., (57) 1528
Balard, P., (16) 1532, (32) 1799
Balboni, G. M., (38) 273
Balch, F. G., (21) 1527
Balduzzi, A., (108) 377
Baldwin, H. A., (132) 180, (132) 942
Baldwin, J. F., (104) 696, (118) 858, 1017, (14) 1029
Baldwin, R. N., (56) 2019
Baldy, J. M., 176, (118) 2020
Balfour, D. C., *584, (18) 1106
Ballard, I. W., (89) 1274
Ballenger, S. G., (99) 371, *580, (101) 942
Ballero, A., (108) 377
Ballin, M. J., *983
Pallner, J., (81) 1537
Palloche, E. A., (115) 1453
Bana, F. D., (3) 1530
Bancroft, C. P., (11) 856
Bandler, S. W., (76) 542
Bang, H., (81) 784, (140) 868
Bannes, F., (97) 1690
Bar, P., (31) 1199
Barabas, Z., (90) 1690
Barany, R., (114) 949
Barasch, H., (78) 624
Barbara, B., (73) 1690
Barbat, J. H., (28) 774
Barbar, C. H., (5) 1797
Barber, H. W., (21) 88, (13) 1686
Barber, M. A., (155) 87, (122) 1275, (112) 1529
Barber, R. F., 1790
Barber, W. H., *205, (21) 1106, (94) 1796
Barber, W. L., Jr., (117) 85
Barbour H. G., *736, (46) 1527
Barbour, P. F., (111) 1453
Barck, C., (31) 939
Barclay, A. E., (2) 544, (7) 2100
Barcroft, J., (18) 699, (8) 1879, (8) 1944
Bard, L., (48, 49) 1946
Bardswell, N. D., (25) 545
Barge, J. A. J., (131) 626
Barker, C. B., (88) 858
Barker, L. F., (1) 614
Barling, G., (15) 779, (3) 860, (8) 2100
Barlocco, A., (102) 285
Barlow, N., (27) 939, (26) 1273
Barnard, E. M., *728
Barnardo, F., (28) 2022
Barnes, F. H., (70) 541
Barnes, F. L., (119) 1616
Barnes, F. M., Jr., (104) 942
Barnett, C. E., (151) 180
Barnhill, J. F., (112) 85
Barnsby, H., (28) 1618
Barnum, C. G., *498
Baron, L., (55) 1535
Barr, R. A., *506, (112) 1453
Barral, E., (58) 945
Barratt, J. O. W., (10) 372
Barrett, A. M., (86) 469, (113) 1878
Barrett, C. W., (17) 1029
Barrie, G., (28) 1030
Barrier, G., (24) 2101
Barringer, E. D., (7) 1874
Barrington, F. J. F., (7, 8) 778
Barrington-Ward, L. E., (9, 23) 2100
Barron, W. R., (149) 276, (127) 1033
Barry, D. T., (9) 2169
Bartels, C. D., (73) 946
Barth, J., (24) 278
Bartholow, P., (75) 857
Bartlett, F. K., (3) 176
Bartlett, H. L., (87) 1193
Bartlett, W., (72) 1452, (1) 1793
Bartley, E. H., (163) 275
Bartolotti, C., (79) 2106
Barton, W. M., (174) 87, (115) 543, *986
Bartow, E., (39) 178
Baruch, D., (120) 1202
Baruch, M., (49) 1619
Baruch, S., (121) 85
Barwell, H., (11) 471, (3) 620
Basch, S., (106) 1109, 1871
Basl, L., (73) 1115
Bass, C. C., *553, (110) 697, (142, 146) 1194
Bass, M. H., (6) 367
Bassett-Smith, P. W., (23) 372, (12, 16), 1880
Bassi, G., (91) 1367
Bassler, A., *1062
Bassoe, P., 2013
Bastedo, W. A., *808
Basten, J., (165) 2027
Bastianelli, P., (90) 1537
Bates, F. D. W., (125) 180
Bates, W. H., (131) 1797
Bathurst, W. R., (35) 82
Batroff, W. C., (76) 1274
Batten, F. E., (1) 1195, (29) 1945
Battle, W. H., (10) 698
Bauch, S., (33) 857
Baudouin, M., (23) 1455
Bauer, (100) 1803
Bauer, J., (48) 374
Bauer, R., (99) 1951
Baughman, G., (7) 1029
Bäumler, C., (73) 1457
Bayon, J. E., (24) 473
Bayeux, R., (54) 2024
Bayne-Jones, S., (11) 2168
Bayon, H., (1) 1362
Bazy, P., (24) 699, (49) 1036
Beach, R. M., (2) 1875
Beach, W. W., (66) 2099
Beard, R. O., (61) 1032
Beardsley, E. J. G., (85) 1453
Beates, H., Jr., (100) 543
Beaussenat, (27) 2101
Beauvy, (37) 374
Beavis, J. M., (7) 544
Beccherle, G., (71) 1883
Becco, R., (112) 1367
Bechet, P. E., (69) 541
Beck, C., (106) 858, *1749
Beck, J. C., (70) 94, (35) 467, (140) 697, (70) 1108, (32) 1273, (68) 1685, (58) 1942, (24) 2018
Becker, C., (33) 474
Becker, G., (46) 700
Beckley, C. C., (23) 1527
Bedell, A. J., (19) 82, (8) 1357
Bednarski, A., (33) 616
Bedson, S. P., (35) 944
Beebe, S. P., *413, (15) 693, (125) 1879, (1) 2167
Beekman, F., (7) 773, (23) 1450
Beer, B., (97) 284, (131) 1692
Beerman, W. F., (43) 1192
Begtrup, E., (106) 1804
Behncke, G., (107) 1804
Behr, C., (102) 550
von Behr-Pinnow, (85) 2025
v. Behring, E., (55) 91, (74) 947
Beier, A. L., (131) 1033
Beifeld, A. H., (45) 857
Beibèze, R., (40) 861
Belem, P., (91) 1117
Belfield, W. T., *2040
Belgrano, C. S., (144) 1694
Bell, E. T., (75) 695, (20) 938, (21) 2168
Bell, P. G., (55) 617
Bell, R., (61) 2099
Bell, W. B., (20) 1112
Bellamy, R., (67, 69) 1942
Bellizzi, V., (102) 1117
Benda, T., (40) 1800

Bendick, A. J., *809
Benedict, A. L., (118) 697, (102) 1878
Benedict, F. G., (37-41) 1358
Benedict, S. R., (73, 74) 695, (83-85) 1877
Benestad, G., (38) 474, (85) 703
Benians, T. H. C., (11) 88, (2) 1453, (9) 1879
Benini, R., (67) 475
Bénisty, A., (27) 1456, (18) 1532
Benjamin, J. E., (59) 1615
Bennett, W. H., (105) 1194
Benyas, N. M., (124) 1194
Bérard, L., (46) 1688, (51) 2024, (19) 2171
Berezovsky, M. V. B., (145) 552
Berg, J., (138) 1202
Berg-Hansen, C., (123) 1460
Bergasse, G., (36) 1800
Bergell, P., (85) 549
Bergeron, J. Z., (53) 774
Bergmann, H., (57) 862
Bergmark, G., (150) 627
Bergonié, J., (48) 2024
Bergstrand, H., (115) 1282
Berkeley, W. N., (109) 778
Berkes, H. A., (136) 1194
Berkowitz, S., (96) 179, (165) 180
Berlin, W. C. K., (116) 1360
Bernhardt, M., (68) 1689
Bernheim, B. M., (25) 615, (87) 1109, *1580
Bernstein, E. P., *1907
Berry, F. B., (27, 30) 1794
Berry, G., (38) 1875
Berry, H. M., (2) 2022
Berry J., (132) 469
Berry, V., (130) 858
Berry, W. D., (115) 1110
Berta, A., (116) 1460
Bertelli, G., (109) 626
Bertolini, A., (35) 2172
Bertolotti, M., (101) 1117
Bertrand, G., (25) 88, (39) 546
de Besche, A., (53) 2096
Besold, G., (101) 704
Bessau, G., (72) 1457, (51) 1535, (88) 1690, (86) 2026
Betke, *58) 1619
Bettmann, H. W., (89) 1109, 1787
Bevaqua, A., (118) 626, (116) 1201
Bey, O., (31, 40) 700
Bhiday, B. S., (4) 87
Bibb, L. B., (26) 1612
Bickerstaff, J. H., (31) 1684
Bidot, C., (26) 781
Bie, V., (126) 1368
Bieberbach, W. D., (15) 774
de Biehler, M., (14) 2170
Biehn, J. F., (41) 1451
Bielschowsky, A., (97) 625
Bier, A., (67) 863, (97) 948
Bierring, W. L., (67) 1274
Biffis, P., (123) 866, (68) 1883
Bigelow, O. P., (60) 83, (30) 1451
Biggs, G. S., (19) 88
Billmann, H. S., (92) 784
Bilancioni, G., (13) 378
Bill, A. H., (20) 1272
Billings, F., (168) 182, 1524
Billington, R. W., (148) 1362
Billstrom, J., (140) 626
Bing, L., (123) 286
Bingeman, M. E., (113) 1530
Bingold, C., (44) 1112
Binnerts, A., (96) 188
Birch-Hirschfeld, G. V. A., (78) 1621
Bircher, E., (33) 1456
Bird, U. S., (58) 618, (154) 1944
Birdsall, J. C., (44) 939
Birdwood, G. T., (24) 1276
Birmingham, H. P., (99) 1109
Bischoff, C. W., (82) 91
Bishop, E. S., (116) 942
Bishop, L. F., (92) 618, (126) 1879
Bishop, R. H. F., (81) 1108
Bissell, D., (1) 1526
Bissell, F. S., (39) 694
Bissell, J. B., (128) 1879
Bissell, W. W., *1041
Bjorck, P. T., (155) 380
Black, D., (28) 1451
Black, H., (37) 621
Black, J. H., (163) 87
Black, K., (3) 1033
Black, N. M., (149) 620
Black, R. A., (49) 1795
Black, S. O., (101) 371
Blackburn, T. W., (100) 85
Blackfan, K. D., (65) 548
Blackham, G. E., (94) 1616
Blackham, R. J., (89) 469
Blackwell, E. M., (128) 620
Blackwell, H. B., (19) 272
Blackwood, N. J., (94) 1032
Blahd, E. M., (75) 1360
Blair, E. G., (145) 180
Blair, V. P., *1896, 2161
Blaisdell, J. H., (15) 1357
Blakely, S. B., (60) 2099
Blakeway, H., (25) 1196, (31) 1276
Blanchard, R. R., (31) 861
Bland, P. B., 1102
Bland-Sutton, J., (5) 183
Blankmeyer, H. C., (78) 84
Blaschko, A., (81) 624, (78) 1199
Blatt, P., (125) 1692
Blech, G. M., 168, (88) 469, (102) 1943
Blechmann, G., (51) 1947
Bledsoe, R. W., (64) 371
Blegvad, N. R., (147) 868
Bleuler, (79) 947
Bliss, M. A., (19) 938
Bloch, L., (75) 1279
Block, S., (118) 942
Blodgett, S. H., (93) 1193
de Bloeme, P., (123) 626
Bloodgood, J. C., *2031
Bloomer, G. T., (85) 84
Bloomfield, A., (11) 2168
Blosser, R., (118) 543
Blue, R., (121) 778
Blühdorn, K., (105) 1691
Blum, H., (74) 1615
Blumenthal, G., (36) 1112
Blumenthal, S. J., (87) 1274
Blumenthal, W., (84) 1457
Blumer, G., (40) 1876
Boas, H., (110) 1338
Boas, (57) 1688, (36) 2102
Bobb, B. A., (48) 1685, (100) 1878
Bobbitt, R. M., (180) 87
Bock, J. C., (73) 695
Böcker, W., (65) 1535, (40) 2102
Boeck, C., 1920
Boehm, J. L., (53) 1795
Boeke, J., (71) 783
Boenheim, F., (76) 549, (53) 1365
de Boer, A., (13) 705, (108) 1538
Boerner, (116) 2027
Boerner, R., (109) 1201
Bogart, A. H., (28) 1106
Boggs, R. H., (144) 86
Böhm, A., (50) 185
Bohne, R. A. G. E., (85) 1457
Boice, C. A., (78) 1453
Boit, H., (60, 61) 548
v. Bokay, J., (78) 1037
Boks, D. B., (132) 867
Bolaffio, M., (101) 376
Boldt, H. J., 466, (40) 774, (103) 1032, (133) 1110, 2016, (74) 2105
Bollm, B. J., (84) 1943
Bolk, L., (3) 2016
Bollag, K., (52) 475, (94) 1280
Bolognesi, J., (67) 91
Bolten, G. C., (137) 379, (113) 705
Bolton, C., (6) 1879
Bolton, J. W., (74) 1452
v. Bomhard, H., (84) 864
Bond, C. J., (10) 1195
Bonifield, C. L., (7) 176
Bonn, H. K., (129) 469
Bonnefon, G., (45) 945
Bonner, H., (67) 2019
Bonnot, E., *146, *1317
Bonola, F., (112) 866
Bonser, W. O., (13) 1940
Boom, B. K., (121) 1367
Boot, G. W., *812
Boothby, W. N., (26-30) 1794
Boquel, (35) 374
Boral, H., (50) 1882, (74) 1949, (95) 1950
Borelius, J., (145) 952, (97) 1803
Borelli, L., (46) 90
Borgbjærg, A., (104) 1804
Börger, F., (90) 1117
Borgmeyer, J. G. L., (100) 1796
Boruttau, H., (75) 1620
Bosler, A., (108) 93
Bossart, J., (59) 701
Bossart, L., (45) 374
Bossi, L. M., (92) 1367
Boston, L. N., (146) 86
Bosworth, A. W., (78) 695, (4) 773, (78) 941, (91) 1877
Böttner, A., (86) 864
Botto, T., (111) 1366
Boudreau, F. G., (140) 1944
Bouman, L., (131) 1039
Bourke, E. A., (8) 544, (2) 1530
Bousquet, H., (21) 278
Bouton, W. C., (37) 178
Bovée, J. W., 175, (120) 1361, (114) 2020, 2092
Bovie, W. T., (25) 939, (42) 1358
Bowditch, H. I., (4) 773
Bowen, D. R., (20) 466
Bowen, J. T., (27) 2018
Bowers, E. F., (65) 1193
Bowlby, A., (13) 277, (19) 372
Bowles, J. T. B., (19) 1929
Bowling, J. A., (96) 1453
Bowman, J. L., (106) 371
Bowman, W. M., (68) 1876
Boyd, M. L., (32) 1684
Boyd, W., (48) 1941
Bozeman, N. G., (102) 1274
Braaflladt, L. H., (18) 693
Braasch, W. F., *104
Braatz, E., (119) 93
Bracken, H. M., 770
Bradburne, A. A., (12) 620, (6) 2169
Brade, R., (63) 623
Bradfield, J. A. J., (112) 1685
Bradford, E. H., (70) 618, (22) 1527
Bradley, H. C., (30) 2096
Bradley, R. L., (99) 1032
Bradley, W. N., (26) 1191, (32) 1875
Brady, J. M., (103) 619
Brady, W., (93) 1529
Brailsford, A. M., (116) 778
Bram, I., (119) 1194
Bramwell, B., (11) 1195, (16) 1276, (2) 1797, (17) 2022
Brancati, R., (89) 188, (117) 626
Brandeis, J. W., *1640, 2086
Brandenburg, K., (100) 550
Brandes, M., (63) 91
Brannan, J. W., (92) 1796
Branth, J. H., (81) 275
Bratrud, T., (65) 179
Braude, J., (80) 187
Brauer, A., (42) 2102
Braun, H., (97) 92
Brauneck, (44) 1881
Braunschweig, (67) 1457
Bray, A., (82) 2019
Bray, H. A., *1127
Brazeau, S. D., (80) 858
Breccia, G., (83) 188, (114) 1201
Breene, F. T., (70) 1274
Breiger, E., (87) 1037, (57) 1113
Breinl, A., (13-15) 372
Breitmann, M. J., (82) 187
Breitstein, L. L., (46) 1614
Brenitzer, A. G., (22) 615
Brennan, J. A. O., (57) 371
Brenner, E. C., (52) 857, (107) 2020
Brewer, C. P., (142) 2021
Brewer, G. E., (18) 615, (112) 1194, *1580
Brewitt, F. R., (47) 1881
Briand, M., (51) 622
Brickley, W. J., (32) 1941
Brickner, W. M., (67) 541, (10) 1105
Bridges, J. W., (45) 82
Bridgman, E. W., (21) 1190
Bridgman, P. W., (50) 467
Briggs, H., (34) 1034, (16) 1798
Briggs, H. H., (12) 272
Briggs, R. S., (69) 695
Brill, A. A., (41) 467
Brill, C., (87) 549
Brill, N. E., 1762
Brim, C. J., (3) 466
Brinck, T., (37) 90
Brinckmann, A., (83) 92
Brinda, A., (6) 1035
Brinitzer, E., (75) 1949
Brittin, A. L., (34) 467
Britto, A., (131) 379
Broca, A., (26) 183, (50) 622, (29) 1456
Brock, W., (34) 616
Brockmann, H., (87) 2026
Brödel, M., (61) 1876
Brodsky, E. S., (68) 179
Brogden, M. S., (63) 1876
Bronfenbrenner, J., (27) 272, (62) 1108, *1306, (68) 1795
Bronner, H., (58) 371
Brooks, C., *391, (11) 1190
Brooks, C., (14) 693
Brooks, G. F., (107) 1360
Brooks, H., (81) 1615
Brophy, T. W., (136) 469
Brösamlen, O., (39) 90
Brose, L. D., (29) 616, (27) 857
Broshead, C. K., (43) 541
Brotherhood, J. S., *1757
Brouwer, B., (76) 476
Brown, A., (50) 1614
Brown, A. G., (97) 1685
Brown, A. J., (93) 1616
Brown, F. P., (143) 1361
Brown, E. J., 1782
Brown, E. L., (39) 467
Brown, E. M., (51) 1685
Brown, G. V. I., (133) 469
Brown, H. B., (22) 272
Brown, H. C., (137) 1194, (20) 1363, 1495
Brown, H. W., (106) 778
Brown, J. E., (38) 1273
Brown, J. H., (85) 696
Brown, J. R., (110) 275
Brown, J. Y., 465
Brown, L., *886, *1977
Brown, L. P., (18) 1875
Brown, O. H., (102) 619
Brown, P., (38) 694
Brown, P. E., (16) 2096
Brown, P. F., (29) 1612
Brown, S., *1977
Brown, S. A., (89) 1453
Brown, T. R., 1871, 1939
Brown, V. L., (142) 379
Brown, W. F., (48) 1527
Brown, W. L., (18) 1112, (134) 1361
Brown, W. M., (18) 1272
Browning, C. H., (10) 860
Browning, J. W., (87) 2020
Brownlee, J., (14) 1945
Bruce, W. L., (29) 861
Bruck, C., (117) 949
Brueckner, A. L., (89) 696
Bruggeman, H. O., (54) 695
Brule, (55) 1688
Brumby, W. M., (123) 372
Brumpt, E., 2174
Brun, H., (83) 1199
Brundage, F. E., (107) 1274
Brunemeier, E. H., (21) 693
Brunger, H., (65) 282
Bruni, A., (139) 1693
Bruni, A. C., (82) 375
Brunner, W. F., (11) 1450, (56) 1452
v. Bruns, P., (30, 31) 1456
Bryan, O. N., (112) 372
Bryan, W. A., (110) 1453, (103) 1616
Bryant, J., (41) 1031
Bryant, W. S., (129) 858
Bryce, P. H., (33) 694, (158) 1944
Bryson, J. G., (132) 2021
Buchan, W., 2061
Buckley, A. C., (142) 1879
Buckley, J. P., (8) 277
Bucky, G., (71, 72) 649, (73) 2025
Budd, S. W., (134) 778
Buerger, L., (80) 84, (94) 179, (18) 938
Buford, C. G., (121) 469
Buiwid, O., (55) 475, (95) 1200
Bujard, E., (83) 376
Bulkley, K., (8) 1449
Bulkley, L. C., (54) 1685
Bulkley, L. D., (23) 177, (101) 1878
Bull, P., (109) 1624
Bullard, W. N., 1937
Bullock, W. E., (16) 779, (13) 1530
Bulson, A. E., Jr., (99) 858, (38) 1684
Bulson, G. A., (72) 469
Bumsted, C. V. R., (108) 778, (89) 1193
Bunch, G. H., (147) 276
Bunch, R. J., (37) 467
Bundesen, H. N., *1203
Bundschuh, E., (91) 1623
Bunting, C. H., (58) 1876, *1953, (53) 2097
Bunts, F. E., (160) 180, (50) 1107
Bunzel, H. H., (60) 1877
Burch, L. E., (82) 2099
Burchell, E. B., (151) 1195
Burdick, A. F., (69) 468
Burge, E. L., (2) 2167
Burge, W. E., (265, (2) 2167
Burger, P., (98) 703
Burger, T. O., (24) 774
Burghard, F. F., (29) 1880
Burk, W., (44) 700, (65) 1535
Burkhardt, C. F., (72) 84
Burkitt, R. W., (21) 1945
Burleson, J. H., (166) 87
Burlingame, C. C., (51) 1528
Burn, J. H., (32) 540, (73) 1193
Burnam, C. F., (62) 1876
Burnett, T. C., (67) 1108
Burnham, A. C., (125) 85, (97) 1943
Burnham, G. H., (100) 858
Burns, E. L., (109) 696
Burns, F. S., (39) 1684
Burns, J. E., *2126
Burns, T. C., (87) 858
Burr, J. W., (79) 275, (13) 938, *1211
Burton-Opitz, R., (23) 693, (7) 855
Busch, M., (82) 549
Buschan, G., (79) 1366
Büschel, M., (38) 90
Buschke, A., (50) 281, (68, 78) 549, (64) 863
Butler, C. S., (129) 620
Butler, E. N., (10) 1530
Butler, T. H., (5) 1530
Butner, A. J., (36) 774
Butt, A. J., (132) 860, (140) 1361
Byers, J., (1) 2169
Byrne, J., (123) 1797
Byrnes, C. M., (45) 616
Byrnes, F., (45) 1451
Byrnes, R. L., 180

C

Cabot, H., (16) 858, (52) 940, (44) 1107, (13) 1190
Cabot, R. C., 763, 2164
Cade, A., (54) 945
Cadwalader, W. B., *428, *1892
Cadwallader, R., (61) 83, (63) 541
Cadwallader, R., (128) 858
Cagnetta, V., (65) 475
Cahen, F., (68) 1366
Cahen-Bach, E., (99) 1690
Cain, J. S., (147) 1362
Cain, W. T., (67) 179
Caldwell, C. E., (86) 1796
Caldwell, F. C., (3, 4) 1682
Caldwell, H. C., 2086
Caldwell, J. R., (26) 1880, (36) 2022
Calhoun, F. P., (108) 1616
Callan, P. A., (104) 275
Callender, G. R., (10) 1793
Calligaris, G., (59) 1882
Camerer, C. B., (131) 620
Cameron, A. L., (13) 2017
Cameron, A. T., (50) 2097
Cameron, M. C., (75) 618

Cammermeyer, J., (120) 286
Cammidge, P. J., (37) 944
Camp, C. D., (93) 696, (81, 84) 1032
Campani, A., (115) 1039
Campbell, A. M., (126) 469
Campbell, C. M., (1) 937
Campbell, G. A., (122) 1110
Campbell, M. A., (125) 619
Campbell, W. C., (124) 858
Campbell, W. F., (54) 857
Campiche, P. S., *1633
Canavan, M. M., (90) 84, (58) 274, (41) 616, (80) 696
Candler, C. L., (98) 1360
Canfield, R. B., (77) 469
Cannata, S., (95) 1367, (63) 1883
Cannon, G. E., (43) 1273
Cannon, W. M., (16) 368
Cantani, A., (125) 378
Canti, R. G., (22) 1945
Cantlie, J., (33) 621
Cantoni, V., (41) 374
Capell, W. L., (117) 1194
Capella, M., (70) 475
Capes, W. P., (121) 1033
Cappello, G., (72) 1802
Carafoli, A., (127) 94, (84) 188
Carbonell, J. J., (116) 1367, (88) 1803
Carchidio, U., (104) 1367
Cardarelli, A., (104) 285
Cargile, C. H., *582
Cargill, L. V., (36) 1945
Carini, A., (82) 1803
Carl, W., (63) 548, (60) 863
Carlin, R. C., (40) 1273
Carlson, A. J., *15, (18, 21, 25) 693, (3) 855, (15) 1526, *1822
Carman, R. D., (52) 617, (29) 1030, (31) 1106
Carmichael, R. D., 581, 822
Carnett, J. B., (27) 1450
Carnot, P., (44) 1277, (32) 1618
Caronia, G., (137) 952, (75) 1690
Carpenter, D. N., (93) 1032
Carpenter, E. R., (112) 469, (20) 857
Carr, W. L., (16) 540
Carrick, M. M., (100) 1685
Carrington, H., (57) 1108
Carroll, A. H., (20) 1040
Carroll, W. C., (34) 541, (122) 1361
Carruthers, N. S., (17) 1686
Carson, A. I., (69) 1615
Carstens, J. H., (51) 2019
Carter, H., (6) 1362
Carter, H. R., (141) 1194
Carter, J. H., (130) 544, (80) 2099
Carter, P. J., (87) 371
Carter, W. W., (30) 1273, (104) 1878
Carver, A. E., (9) 1686
Cary, E., (142) 1361
Cary, E. H., (136) 778
Cary, S. B., (154) 87
Cary, W. H., (9) 1029
Casamajor, L., 463
Case, J. T., (29) 177, (19) 1612, (1) 1616
Casselberry, W. E., *576
Casselman, A. J., *328, (40) 2096
Cassirer, R., (78) 2025
Castaigne, J., (47) 622
Castellani, A., (26) 1363, (17) 1880, (62) 1883, (7) 1944
Castex, A., (49) 1197
Castle, O. L., (22) 1940
Cataldi, P., (112) 286, (112) 378
Cates, B. B., (143) 544
Cates, T. H., (14) 1797
Cathcart, C. W., (22) 372
Cathelin, F., (107) 1367
Cather, D. C., (124) 1530
Caudle, B. A., (96) 777
Cavaglieri, E., (138) 1693
Cavanaugh, J. A., (73) 84
Cavazanni, E., (69) 475
Ceballos, A., (110) 1367
Ceccoli, L., (136) 552
Cecil, A. B., 368
Cecil, R. L., (12) 538, (71) 775, (83) 1274
Cencelli, A., (26) 1687
Center, C. D., (46) 1795
Cerioli, A., (94) 1117
Cervo, D., (113) 866
Chabanier, H., (41) 944, (28) 1456
Chadwick, H. D., (9) 368
Chalier, J., (34) 1364, (23) 1617
Chalkley, A. J., (108) 179
Chalmers, A. J., (29) 1276, (13) 1617, (31) 2022
Chamberlain, W. P., *1215
Chamberlin, W. B., (23) 857
Chambers, G., (49) 1192, 1787
Chambers, R., Jr., (63) 1452
Champion, B. H., (62) 940
Chance, B., (25) 82, (103) 1529
Chance, H. C., (44) 541
Chancellor, P. S., (115) 93
Chandler, G., *239, (19) 1272
Chaney, R. H., (24) 1106
Channing, W., (39) 82
Chapin, H. D., *1, 265
Chapin, R. M., (72) 941
Chapman, C. W., (40) 1687
Chaput, (42) 546, (48) 1036, (37) 1618, (35) 1800
Chargin, L., (15) 1875
Charlton, C. C., (62) 541, (117) 1797
Charlton-Bastian, H., (154) 1694
Charrier, J., (42) 862
Chase, C. S., (72) 1942
Chase, H. M., (48) 1273
Chase, R. F., (72) 1685
Chase, W. B., (94) 371
Chatterjee, G. C., (25) 621, (15) 861, (27) 2022
Chavanne, (38) 861
Chavasse, (15) 278
Cheadle, C. M., (129) 1033
Cheatle, G. L., (10) 183
Cheever, D. W., (14) 1357
Cheney, F. E., (145) 1944
Cheney, W. F., (2) 1793
Cherry, S. L., (158) 544, (152) 1195, (127) 1616, (149) 1879
Cherry, T. H., (126) 1797
Chesnutt, J., (38) 939
Cheyne, W. W., (22) 1196, (12) 1880, (27) 1945
Chiaravalloti, L., (105) 285, (99) 1367
Chiari, H., (23) 473
Chiari, O., (94) 865
Chiari, R., (119) 1691
Chiasserini, A., (72) 1883
Chickering, H. T., (50) 1527
Chilaiditi, D., (89) 92
Child, C. M., (14) 1794
Child, S. P., (110) 1943
Chipman, W. W., 79, (10) 1272
Chirari, H., (114) 2027
Chiray, M., (35) 1881
Chiri, C., (109) 866
Chisholm, M., (31) 177
Chittick, A. C., (104) 1943
Chlumsky, (130) 2028
Chosroeff, G. P., (146) 552
Chotzen, T., (107) 1201
Christen, T., (68) 1199
Christian, H. A., (29) 272
Christian, R. V., (46) 2096
Christiansen, V., (78) 784
Christophine, S. A. V., (33) 1684
Christmann, P., (83) 1360
Christopherson, J. B., (8) 372
Chron, J. P., (80, 81) 476
Chrysospathes, (69) 1801
Chueco, A., (109) 1367
Church, J. R., (93) 469, (79) 1529
Churchman, J. W., (39) 1030, *1233
Ciarla, E., (111) 866
Cipes, J. S., (108) 696
Ciuffini, F., (96) 1535
Claiborne, J. H., (34) 939
Clarac, G., (20) 780
Clark, C. F., (128) 942, (99) 1453
Clark, H. H., (15) 177, (77) 179, (5) 773, (24) 1273, (47) 1451
Clark, J. A. M., (14) 183
Clark, J. G., (110) 2020
Clark, J. S., (32) 467, (146) 1944
Clark, L. P., 464, (24) 467, (91) 618, (111) 942, (106) 1032, (114) 1109, (118) 1194, (103) 1274
Clark, M., *1230
Clark, P. O., (114) 1796
Clark, S. M. D., (158) 87, (93) 1274, (103) 2020
Clark, W. M., (49) 467, (84) 696
Clarke, J. A., Jr., *1737
Clarke, J. J., (38) 621
Clarke, J. M., (2) 1879
Clary, L. A., (81) 1360
Claude, H., (51) 1197, (47) 1277
Clauss, E., (122) 93
Clayton, C. F., (48) 541
Clayton, T. A., (7) 1793
Cleland, F. A., (47) 1941
Clement, A. E., (76) 1453
Clemow, F. G., 1325
Cleveland, A. J., (4) 544
Clifton, A. L., (125) 1530
Climenko, H., (123) 85, (102) 543, (93) 1878
Cloetta, M., (83) 947
Clopton, M. B., (118) 469, (97) 1194, (109) 1616
Clough, H. T., (77) 618
Clough, P. W., (54) 940
Clouting, E. S., (120) 1943
Clowes, G. H. A., 1525
Clymer, C. E., (83) 858
Coates, G. M., (71) 2099
Coats, G., (31, 32) 1795
Cobb, P. W., (8) 855
Cobb, W. F., (64) 695
Cobbold, F. B., (14) 177
Cocke, C. H., (122) 778
Cockrell, B. A., (41) 541
Cocks, G. H., (64, 67) 1685
Codd, J. A., (8) 2022
Cody, C. C., Jr., (134) 942
Coe, H. C., (103) 179
Coenen, H., (48) 1619
Coffey, R. C., (25) 1450
Coffin, L. A., (87) 1360
Cofield, R. B., (55) 468, (60) 1452
Coglevina, B., (92) 1623
Cohen, S. S., (9) 614
Cohn, A. E., 463, 1938, (18) 2168
Cohn, I., (70) 1032
Cohn, J., (50) 1365
Cohn, M., (127) 951
Cohnheim, O., (30) 474
Cohnheim, P., (58) 1688
Colardeau, E., (29) 184
Cole, H. N., (67) 1876
Cole, L. G., (18) 615, (36) 694, (42) 1031
Cole, R. L., (89) 275, (93) 371, (4) 1195, (41) 1876
Cole, W. F., (93) 2020
Colella, R., (132) 94
Coleman, J., (89) 618
Coleman, T. D., (54) 274
Coleman, W., (6, 7) 2094
Coles, A. C., (19) 1617
Coleschi, L., (130) 94
Coley, F. C., (35) 1687
Collie, J., (34) 1945
Collier, C., (139) 1361
Collier, J. L., (153) 698
Collin, L., (108) 1624
Collings, H. A., (27) 774
Collins, J., (12) 614, (71) 1615
Collins, J. R., (12) 943
Collins, K. R., (52) 1031
Collins, R. J., (59) 83
Colliver, J. A., (23) 1191
Colston, J. A. C., (122) 469
Colteaux, J. A., (49) 774
Colvin, A. R., (182) 87
Colwell, N. P., 852
Comby, J., (29) 781, (47) 1035, (9) 1111, (37) 1364, (50, 52) 1947
Comfort, C. W., 2094
Commons, J. R., (146) 620
Compton, A., (7) 1111
Comstock, A., (65) 857
Concepcion, I., (110, 111) 1529
Condit, W. H., (39) 370
Cone, S. M., (2) 692
Conn, C. E., (64) 1942
Connell, F. G., (149) 180, (126) 1361
Conroy, J. M., (130) 1033
Conseil, E., (25) 699, (43) 862
Conzelmann, P., (83) 2019
Cook, E. A., (33) 467
Cook, E. C., (73) 1032
Cook, G. W., (95) 543, (111) 619
Cook, J. E., 2167
Cooke, A. B., (114) 1616
Cooke, C. T., (124) 697
Cooke, J. V., (20) 1190, (7) 2168
Cooke, R. A., (84) 1274
Cooley, R. A., (64) 1678
Coolidge, E. L., (58) 1273
Coombs, C., (2) 1195
Cooper, G. M., (125) 778
Cooper, J. W. A., (47) 698
Coopman, H. L., (132) 2028
Copeman, S. M., (13) 860, (26) 861
Corbett, C. H., (5) 2169
Cordier, V., (45) 1940
Cordoni, S., (95) 1117
Cords, R., (84) 1690
Coriat, I. H., (58) 1108
Corica, A., (109) 285, (143) 952
Corlett, W. T., (60) 1192
Corley, K. C., (5) 1526
Cornell, W. B., (53) 1876
Corner, G. W., (8) 2168
Cornick, B., (118) 372
Cornig, E., (4) 1357
Cornwall, J. W., (24) 621
Cornwall, L. H., (85) 1615
Corper, H. J., (67, 74, 75) 775
Corres, C. E., (60) 379
Corrigan, F. P., *585
Corso, G., (70) 1802
Corson, E. R., (35) 1684
Corson-White, E. P., (6) 1939, 2014
Cort, W. W., (61) 178
Cory, T. K., (26) 1527
Corvell, J. R., (18) 1684
Coryllos, P., (62) 1036
Costantini, F., (73) 1884
Cottenot, P., (19) 1532
Cottin, E., (57) 623
Cotton, F. J., (170) 87, (157) 180, *318, (16) 1357
Cotton, W., (8) 1275, (34) 1687
Coues, W. P., (53) 940, (39) 1875
Coughlin, W. T., *291
Coulin, R. F., (146) 2029
Coulter, C. F., (54) 1528
Coupin, H., (22) 2171
Courcoux, A., (44) 862
Couret, M., (43) 695
Courtney, A. M., (3) 1105, (7) 1272, 2165
Courtney, J. W., (17) 1357
Coutant, A. F., (57) 1615
Couturier, H., (57) 945
Coward, F. A., (138) 276, (102) 1616
Cowden, C. N., (116) 1616
Cowdry, E. V., (84) 376
Cox, W. J., (5) 620
Coyon, (46) 1946
Cozzolino, O., (138) 952
Cragg, F. W., (17, 25) 1363
Cragin, E. B., 174, (113) 2020
Craig, C. B., *51
Craig, C. F., (62) 178, (5) 614
Craig, H. K., (113) 1109
Craige, B., *502
Crämer, F., (95) 703
Crandall, E. P., (17) 1450
Crandall, F. M., (86) 1453
Crane, B. T., (47) 1273
Cranmer, R. R., (72) 1108
Creatle, G. L., (5) 471
Creighton, H. J. M., (33) 1358
Cremonese, G., (124) 94
Crescimone, R., (114) 286
Crigler, L. W., (31) 616
Crile, G. W., (14) 615, (50) 617, (37) 857, (10) 1020, (69) 1032, (123) 1361, (15) 2100
Crisler, C. G., (62) 1615
Crispolti, C. A., (82) 2106
di Cristina, G., (137) 952, (75) 1690
Croftan, A. C., (95) 179
Crofton, W. M., (6) 1616
Crohn, B. B., (6) 271, *565, (28) 1612
Crombie, D. W., (48) 1614, (46) 1941
Croner, F., (77) 702
Cronquist, C., (145) 627
Crosbie, A. H., (14) 856, (42) 1795
Cross, F., (78) 1032
Crossen, H. S., 2015
Crosthwait, W. L., (159) 87
Crothers, T. D., (1) 81, (145) 86, (98) 942
Crotti, A., (98) 1616
Crouse, H., (109) 2020
Crowe, S. J., (39) 1364
Crowell, B. C., (156) 87, (124) 1275
Crozier, W. M., (22) 693
Cruikshank, W. J., (67) 857
Csepai, K., (62) 374
Csernel, E., (85) 1366
Csonka, F. A., (53) 467, (81) 1876
Cubbins, W. A., (108) 858
Cullen, G. E., *126, (77) 1876
Cullen, J. P., (41) 1687
Cullen, T. S., (125) 1110
Cullom, M. McC., *1067
Culver, G. D., *335, (26) 774, (60) 775, (29) 2018
Culverwell, G. H., (18) 1687
Cumberbatch, E. P., (1) 182, (3) 544, (3) 1275
Cummer, C. L., *584
Cummings, H. H., (117) 1878
Cummins, G. W., (116) 180
Cummins, W. T., (29) 1612
Cumston, C. G., (6) 466, (88) 1193
da Cunha, A. M., (121) 1202
Cunningham, J. H., Jr., (141) 180, *231
Cunningham, R. M., (112) 543
Cunningham, W. P., (89) 1115, 1360
Curd, T. H., (46) 541
Curschmann, H., (89) 1458
Curti, E., (96) 1688, (5) 1802
Curtin, T. H., (98) 858
Curtis, A. H., 270, *332, (131) 1110, 2092
Curtis, E. S., 2157
Curtman, L., (44) 467
Cushing, H., *189, (13) 693
Cushny, A. R., (74, 75) 1193
Cytronberg, S., (66) 282
Czerny, A., (26) 473

D

Dachtler, H. W., (158) 180
Da Costa, J. C., (14) 1281
DaCosta, J. C., 937, (80) 1529
Dakin, C. E., (55) 1192
Dale, H. H., (27) 546, (73) 1193
D'Alessandro, A., (115) 1460
Dalla Valle, A., (60) 1882
Dalton, A. J., (125) 858
Da Matta, A. A., (129) 379, (74) 476
Damsgaard, A., (171) 628
Dana, C. L., (90) 179
Dancey, A. B., (142) 544
Dandy, W. E., (65) 548, (38) 1364
Danforth, W. C., 270, *427, (134) 1110
Daniels, H. W., (157) 544
Danielsen, W., (69) 186, (90) 1623
Danysz, J., (53) 1806
Darier, A., (41) 861, (37) 1881
Darling, B. C., (93) 1109
Darling, I. A., (9) 1939
Darling, S. T., (81) 84, (47) 1451, (54) 1615
Das Gupta, S. C., (29) 2022
Daumézon, (47) 2024
Davidoff, M. S., (141) 379
Davidsohn, H., (85) 92
Davidson, H. A., (96) 85
Davidson, J. M., (1) 471, (14) 779
Davidson, L. L., (91) 542
Davies, H. M., (2) 620, (2) 2100

Davies, W. R., (114) 1032
Davis, A. B., (12) 466, (50) 1273
Davis, A. E., (33) 939
Davis, B. F., (19) 1106, (9) 1682
Davis, D. J., (25) 1612, *1814
Davis, D. M., (48) 1876
Davis, E. F., (119) 1110
Davis, E. P., 79, (6) 614, (148) 697, (12) 1272
Davis, F. C., 361
Davis, F. L., (8) 1530
Davis, G. E., (21) 272
Davis, G. G., (140) 180, *711
Davis, H. K., (2) 538
Davis, J. D. S., 464
Davis, J. S., 465, *558, (32) 1191, (123) 1616, *1647
Davis, L., (46) 695, (30) 1941
Davis, M., (48) 1358, (86) 1877, (25) 2096
Davis, M. M., Jr., (16) 1875
Davis, O. C. M., (8) 698
Davis, O. P., (48) 371
Davis, R. H., (58) 775
Davis, T. D., (83) 941
Davis, W. C., (6) 1453
Day, A. A., (5) 1105
Day, B. H., (91) 2020
Day, G. E., (118) 1797
Day, G. H., (55) 371, (94) 777
Day, H. F., (10) 692
Dayton, H., (79) 84
Deadrick, W. H., *1316, (101) 1616
Deal, D. W., (52) 1795
Dearborn, G. V., (59) 2098
Dearholt, H. E., (129) 1033
DeArman, M. M., (92) 1453
Deaver, J. B., (35) 1030, (7) 1105, (32) 1107, (70) 2099
Debat, F., (32) 861, (54) 1947
Debayle, L. H., (41) 774
De Beaujeu, J., (51) 945
Debierne, (49) 1277
De Boer, S., (91) 1803
v. Decastello, A., (91) 625
Decherd, H. B., (35) 2021, (85) 2099
Decker, C. J., (99) 179
Decker, J., (84) 864
Dedekind, F., (89) 1037
Dederer, C., *1318
Dedichen, L., (153) 2030
Dedolph, T., (66) 863
Deelman, H. T., (106) 1624
De Forest, H. P., (76) 2019
Dejerine, (39) 1881, (28) 2101
Delafoune, H. B., (19) 615, (61) 857
Delbet, P., (37) 374, (26) 699, (52) 1688
Delépine, S., (24) 861
Delfino, T., (111) 1460
Delitala, F., (3) 1611
Delorme, E., (37) 861, (26) 1112, (53) 1198, (44) 1688
Delort, M., (51) 1947
Dembicki, A., (55) 375
De Meo, G. F., (103) 1951
De Meritt, C. L., (92) 542
Democh-Maurmeier, I., (107) 551
Dencks, G., (70) 375
Dendy, A., 538
Denis, W., (26, 27) 2096
Denney, B. F., (59) 178
Denney, O. E., *1148
Denny, G. P., (89) 84
Derby, G. S., (13) 1357, (34) 1795
Derby, R., (36) 1875
Dercum, F. X., *878, (104) 1109
Dernehl, P. H., (155) 1944
De Roulet, A., (61) 468
Desderi, P., (115) 626
Desjardins, A., (46) 622
Destefano, F., (114) 1367
Deussen, E., (42) 474
Dever, F. J., (114) 942
DeVilbiss, L. A., (29) 1875
Dewey, K., (56) 1358
Dewey, R., (2) 773, 1347, 2007
Dexter, R., (56) 541, *584
Dey, W. P., (70) 941
Dice, W. G., (15) 1029
Dick, G. F., *145
Dick, G. R., *145
Dickey, W. A., (86) 618
Dickey, W. C., (123) 2021
Dickinson, R. L., (1) 176, (19) 2018
Dickinson, S. W., (110) 778
Diefendolf, W., (61) 701, (86) 947
Dierling, H., (56) 185
Dighton, A., (5) 778
Diller, T., (31) 272, (66) 1032
Di Marzio, Q., (88) 1537
Diner, J., (135) 1879
Dinwiddie, C., (43) 370, (33, 38) 2019
Dirks, M., (80) 91
Disqué, L., (91) 1037
Ditthorn, F., (104) 949
Divella, M., (69) 1883
Dixon, G. B., (4) 620
Dixon, S. G., 459
Dixon, W. C., (146) 1362
Dixon, W. E., (118) 1110
Djanelidze, I. I., (119) 705
Dluski, K., (13) 472
Doberauer, G., (57) 1619, (65) 1801
Dochez, A. R., (63) 775
Dock, G., *629
Dodd, W. J., (17) 82
Dodderlein, A., (85) 1537
D'Odelsnitz, (58) 1277
Döhring, (49) 1456
Doler, C., (98) 1453
Doll, H., (58) 375
Dollinger, A., (113) 93
Dollken, H., (43) 184
Dolmage, G. F., (59) 1192
Donald, W. M., (95) 1360
Donaldson, H. H., 1935
Donaldson, R., (32) 1034
Donzello, G., (141) 1693
Donzelot, E., (23) 780, (45) 1946
Dooley, H. J., (39) 774
Doolin, W., (124) 469
Dopfner, K., (103) 2027
Doran, A., (22) 1034
Dorente, D. R., (58) 616
Dorland, W. A. N., (136) 1110, (55) 1795
Dorning, J., (116) 1194
Dorr, R. C., (107) 1616
Dorrance, G. M., (6) 1874
Doty, A. H., *1836
Dougherty, D. S., (147) 86
Douglas, J., (19) 1940
Douglas, M., (34) 1034
Douglas, S. W., (45) 1273
Douglass, S. A., (142) 1944
Douglass, T., (56) 939
Dowd, A. F., (119) 1797
Dowd, C. N., (36) 1030, 1095
Dowden, C. W., (76) 1360
Dowling, O., *869, (6) 2016
Downes, W. A., *1824
Downie, W., (17) 183
Downs, L. E., (75) 1796
Dox, A. W., (76) 695
Doyle, E. E., (5) 1797
Dozzi, L., (109) 377, (101) 865, (112) 1039
Drake, R. H., (76) 775
Draper, G., (4) 538
Draper, J. W., *205, (4) 271, (32) 1030, 1788
Draper, W., 1872
Drennan, A. M., (12) 545
Drew, C. M., (81) 2022
Dreyer, G., (40) 944, (9) 1454
Dreyfus, G. L., (98) 92, (117) 551, (65) 1115
Dreyfus, W., (35) 694
Drinker, C. K., (6) 855, (64) 1795, (12) 2017
Drinker, K. R., (6) 855
Drinkwater, H., (23) 88
Drolet, G. J., (6) 1686
Drosdova, N. I., (140) 379
Drueck, C. J., (98) 1943
Drummond, W. B., (12) 1686
Drüner, L., (62) 282, (70) 1115
Drury, H. C., (15) 1276
Druskin, S. J., (91) 1616
Duane, W., 1611
Dubin, H., (46) 467, (76) 941
Dublin, L. I., (30) 694
DuBois, D., (5) 2094
DuBois, E. F., (3-5, 7) 2094
DuBois, P. L., (1) 367, (9) 773
DuBose, T. M., Jr., (119) 778
Duckering, F. W., (51) 940
Duckworth, D., 872, 1236
Dudgeon, H. R., (118) 1616
Dudgeon, L. S., (32) 1363
Duff, R. R., (34) 1451
Duffy, R., (43) 273, (76, 89, 98) 371
Dufour, A., (44) 1618
Dugan, R. C., (77) 1943
Duggan, M., (122) 1618
Duke, H., (13) 779
Duke, W. W., (109) 942, (98) 1194
Duken, J., (34) 781, (115) 2027
Duker, P. G. J., (79) 476
Dulin, E. A., (73) 1452
Duncan, C. H., (99) 469
Duncan, E. C., (70) 275
Duncan, R. A., (130) 2021
Dunham, H. K., (46) 2019
Dunham, J. D., (126) 180
Dunlop, J. L., (4) 1033
Dunn, C. H., (49) 695, (4) 1105, 2165
Dunn, H. A., (126) 1530
Dunn, J. S., (38) 1034
Dünner, L., (51) 700, (52) 862, (122) 1692
Dunning, H. S., *132
Du Pan, E. L., (61) 946
Dupuy, H., (126) 543
Durand, H., (34) 1881
Durante, L., (89) 1537
Düring, M., (46) 374
Dutcher, B. H., (27) 1875
D'Utra, O., (84) 1803
Dutrow, H. V., (147) 1797, (67) 2019
Dutton, W. F., (73) 2019
Dworetzky, J., (34) 1273
Dwyer, F. C., (1) 277
Dwyer, J. G., (67) 1685
Dyas, F. G., (115) 858, *1829
Dyer, I., (151) 698, 1025

E

Eakin, W. C. W., (4) 372
Eason, H. L., (9) 471
Eastman, J. R., (134) 469, (30) 1106, (73) 1360
Ebbell, B., (122) 286
Ebeler, F., (103) 1281, (62) 1689, (135) 1693
Ebeling, A. H., (51, 52) 1273
Ebermayer, (76) 863, (47) 1881
Ebright, E. D., (82) 1360
Ebright, G. E., *1742
Ebstein, E., (120) 1691
Eckert, E. (98) 1959
Eckman, R. S., (77) 1453
Eddy, I. H., (58) 1795
Edel, A., (61) 1689
Edelstein, F., (111) 93, (76) 187
Edmondson, E. E., (52) 774
Edmunds, A., (12) 1880
Edmunds, C. W., (74) 1942
Edridge-Green, F. W., (21) 1880
Edsall, D. L., (34) 272
Edson, C. E., (24) 540
Edwards, F. S., (30) 1196
Eggers, H. E., (61) 1358
Eggerth, H., (84) 1366
Eggleston, C., *1819
Eggleston, E. L., (111) 1878
Eggstein, A. A., *735, (63) 1108
Egleston, W., (148) 276
Ehrenfeld, A., *1642
Ehret, H., (80) 284, (86) 1949
Ehrich, W. S., *1909
Ehrlich, H., (92) 1200
Ehrlich, P., (124) 930
Ehrmann, S., (63) 282
Eichel, O. R., (41) 370
Eichhorst, H., (60) 1535, (86) 1537, (46) 2103
Eikenbary, C. F., (11) 1611
Elman, J., (10) 271
Einhorn, M., (47) 280, (12) 937, (58) 940, (91) 1109, 1872
von Eiselsberg, A., (25, 29) 279, (86) 1116, (81) 1537
Eisendrath, D. N., *128, (31) 1527, (36) 1684
Eisenreich, O., (94) 2027
Eisner, E., (88) 1199, (47) 1800
Ekehorn, G., (101, 103) 1803
Ekehorn, J. E., (157) 380
Elder, J. M., (57) 940
Elder, J. W., (75) 1685
Elder, O. F., (99) 371, *580, (101) 942
Eliot, L., (175) 87
Elkind, D. L., (118) 705
Ellermann, V., (152) 552, (59) 1113
Ellinger, P., (40) 474
Elliot, R. H., (125) 697
Elliott, A. R., (90) 696, *1885
Elliott, J. H., (103) 942
Elliott, R. H., (14) 1362
Elliott, T. R., (9) 182, (9) 183, (33) 546
Ellis, A. W. M., *126, (46) 1192, *1721, (77) 1876
Ellis, E. F., (11) 1683
Ellis, N. C., (114) 1453
Elmer, W. P., *1147
Elmore, R. R., (85) 1796
Elsonger, L., *426
Elphick, G. J. F., (27) 943
Els (71) 1536
Els, H., (98) 1038, (76) 1116, (44) 1364
Elsberg, C. A., (90) 179, 537, (8) 1105, (73) 1274
Elschnig, A., (48) 184, (11) 1357
Else, J. E., (107) 543
Ely, J. F., (2) 1192
Ely, L. W., (12) 81, (21) 615, (7) 692, (95) 1529
Embleton, D., (35) 1034, (13) 2169
Emerson, C. P., (61) 695, (42) 1876
Emerson, H., (32) 272
Emerson, L., *301
Emerson, L. E., (42) 467
Emery, W. D., (39) 1946
Emmerich, R., (59) 186, (41) 781
Emmert, M., (59) 1942
Emmes, L. E., (39) 1358
Emmons, A. B., Jr., 78, (9) 1272, (14) 1683
Emrys-Roberts, E., (13) 1362
Emslie, I., (19) 2022
Engel, C. S., (76) 702
Engel, S., (59) 91
Engelmann, G., (97) 1200, (98) 1623
Engelmann, V., (86) 1623
Engfeldt, N. O., (62) 2024
English, D. E., (114) 189
Engman, M. F., (58) 775
Epler, C., (25) 1684
Epplen, F., (114) 275
Epps, C. B., (114) 778
Epstein, J., (86) 1615, (75) 2019
Erbsen, F., (87) 703
Ercolani, P., (75) 1802
Erdheim, S., (30) 279
Erdman, B., (23) 2018
Erdman, S., (86) 275
Erenfeld, H. M., (38) 370
Erhardt, E., (91) 549
Erlacher, P., (72) 946
Ernst, J. R., (71) 2019
Ernst, N. P., (145) 868
Erwin, I., (82) 371
Esbensen, K. A., (30) 861
Eschbach, H. C., (50) 1942
Eschweiler, R., (84) 1690
Esdra, C., (140) 1693
Esmein, C., (47) 1946
Essington, U. K., (123) 619
Estrada, R. D., (122) 1202
Eulenburg, A., (77) 91
Eustachio, L., (74) 1884
Eustis, R. S., (22) 540
Evans, C. A., (109) 1685
Evans, E., (186) 87, (118) 778
Evans, H. M., (18) 1794
Evans, I. D., (2) 1530
Evans, J. H., (110) 619
Evans, J. S., *422
Evans, L. A., (31) 694
Evarts, A. B., (118) 180
Eve, D., (105) 1616
Eve, D., Jr., 1523
Eve, F., (6) 471
Ewald, C. A., (85) 1037
Ewart, J. H., (4) 698
Ewing, A. C., (82) 858
Ewing, J., (114) 85
Exner, S., (92) 1943
Eycleshymer, A. C., *1569
Eynard, (41) 1618
Eyssell, A., (82) 1457
Eyster, J. A. E., (13) 1794
Ezell, H., (139) 544

F

Fabry, J., (95) 1038
Fabry, J. H., (54) 2103
Fadley, F. F., (97) 1032
Fagge, C. H., (10) 2100
Fagiuoli, A., (118) 866
Fahrenkamp, K., (65) 702
Fair, H. D., (57) 1031
Fairlie, H. P., (10) 277
Falson, W. F., (113) 180
Faith, T., (84) 1366, 1620
Falciparum, P., (20) 183
Falco, A., (100) 1538
Falconer, A. W., (17) 1617
Falconer, E. B., (16) 1190
Fales, H. L., (3) 1105, (7) 1272, 2165
Fallon, J. C., (37) 1192
Falls, F. H., (3) 176, *1898, (44) 2096
Fambri, E., (99) 1538
Fantham, H. B., (7, 17) 372
Fantus, B., *1838
Fanz, J. I., (123) 180
Farmachidis, C. B., (72) 476, (91) 1537
Farr, C. B., 1270, (127) 1797
Farr, R. E., (142) 1110, *1753
Farrage, J., (83) 1193
Farrell, B. P., *398, *482
Farrell, P. J. H., (44) 774, (124) 1943
Faught, F. A., (115) 942
Fauntleroy, A. M., (127) 620
Fauntleroy, C. M., *1269, 620
Fauntleroy, P. C., (86) 179, (92) 1032, (102) 1109
Faure, J. L., (42) 1197
Favill, H. B., 762
Fawcett, G. G., (15) 693, (1) 2167
Fay, F. H., (19) 466
Fearnsides, E. G., (2) 1944
Fedde, B. A., (128) 85
Fee, E., (57) 541, (7) 1615
Fehling, H., (39) 474, (97) 1280
Fehsenfeld, G., (67) 1535, (76) 1949
Feichtmayer, F., (83) 624
de Feijfer, C., (116) 705
Feiler, E., (58) 1535
Feiling, A., (32) 1880
Fein, A., (61) 1535
Feist, K., (113) 949
Feistmantel, C., (85) 1368
Feldt, A., (38) 1800
Felke, (110) 2027
Fenger, F., (73) 941, (89) 1877
Fennel, E. A., (79) 1360
Fenner, E. R., (79) 371
Fenton, R. A., *240
Ferdinand, Prinz Ludwig, (84) 284
Fergus, J., (18) 545
Ferguson, J. B., (117) 1110
Ferguson, R. R., (40) 178, (48) 1795
Ferguson, R. T., (124) 1033
Ferralis, G. V., (81) 2106
Ferrannini, A., (139) 2029
Ferrannini, L., (118) 378, (97) 1117
Ferreira, C., (22) 1617
Ferrell, J. A., *1889
Ferron, (49) 862
Fessler, J., (65) 186
Fette, G. T., (85) 179
Fetzer, M., (74) 283
de Feyfer, F. M. G., (75) 783
Fibiger, J., (86) 2106

Fichera, G., (93) 188
Fichera, S., (120) 866
Field, C. E., (76) 1032
Field, T. S., (45) 274
Fields, S. O., (103) 543
Fiessinger, C., (45) 622
Fiessinger, N., (44) 1946
Figuelra, F., (25) 1617
Finder, G., (41) 90
Findlay, L., (15) 183, (13) 620, (22) 699, (26) 1945, (22) 2022
Findley, P., (5) 468
Fine, M. S., (46) 1358
Finger, E., (104) 93
Finizio, G., (139) 952, (97) 1367
Finkelnburg, R., (88) 948
Finkle, B. A., *728
Finley, E., (78) 1453
Finney, J. M. T., (16) 177, 1525
Finochietto, R., (28) 1940
Finzi, N. S., (35) 1196
Fischer, A., (66) 1620, (54) 2103
Fischer, C. S., (81) 618
Fischer, H., (55) 281, (108) 1039
Fischer, I., (96) 1623
Fischer, J., (95) 284
Fischer, L., (31) 82
Fischer, L. C., (53) 1031
Fischer, M., (83) 284, (120) 949
Fischer, M. H., *325
Fischer, W., (85) 864, (59) 1365
Fischer-Nielsen, (122) 1460
Fischkin, E. A., (30) 1527
Fischl, R., (80) 1037, 2173
Fishberg, M., (66) 541, (8) 773
Fisher, A. O., (29) 1030
Fisher, E. D., 2013
Fisher, G. C., (61) 1795
Fisher, H. A., (123) 697
Fisher, L., (29) 694, 800, 890
Fisher, J. C., (68) 84
Fisher, J. W., (87) 941, (57) 1795
Fisher, L., (123) 1943
Fisher, M. K., (109) 1032
Fisher, R. W., (126) 1194
Fisher, W. A., (66) 84, (28) 616, (134) 697, (57) 774
Fisichella, V., (74) 1802
Fisk, C. W., (108) 469
Fisk, E. L., (46) 370, (91) 777, (48) 857
Fiske, E. W., *1387, (5) 1611
Fitch, C. P., *893
Fitz, R., (47) 939, (23) 1612
Fitzgerald, J. G., (52) 1614
Fitzmaurice-Kelly, M., (10) 471
Fitzpatrick, M. J., (58) 178
Fitz Simmons, H. J., *645
Flanary, D. L., (113) 1453
Flancher, L. H., 1095
Flannagan, R. K., (131) 778
Flatau, G., (78) 1949
Fleger, C. A., (130) 1616
Fleischer, B., (91) 864
Fleischhauer, K., (52) 1365
Fleischner, E. C., (31) 1613
Fleisher, M. S., (65) 775, (54) 1358, 1610
Fleming, S., (11) 1275, (9) 1362, (5) 1616, (5) 2022
Flesch, M., (59) 1619
de Fleury, M., (44) 622, (17) 1532, (25) 2101
Fleuster, O., (90) 1949
Flexner, S., (36) 369, (1) 1682, (70, 71) 1795, (59) 1876
Flick, L., 990
Flinn, J. W., (14) 773
Flörcken, H., (89) 1280
Florence, J. H., (113) 543
Floyd, C., (88) 84, (26) 1527
Floyd, R., *1905
Flügge, C., (52) 1801
Folin, O., (26-28) 2096
Fonio, A., (68) 282
Fonss, A. L., (126) 706, (144, 148) 868
Forbes, A., (20) 1526
Forcart, M. K., (60) 1948
Ford, C. B., (133) 1944
Ford, C. S., (92) 371, (87) 469, (131) 860, (79) 2019
Ford, G. S., (80) 1193
Ford, W. W., (49) 616
Formiggini, B., (97) 1538, (104) 1623
Forni, G., (142) 2029
Forrest, T., (9) 1275
Forssell, G., (80) 784
Forssner, G., (90) 784
Fort, A. G., (12) 1450
Fortescue-Brickdale, J. M., (11) 620
Foscue, G. B., (122) 2021
Fossier, A. E., (119) 1879
Foster, M., (3) 1453
Foster, M. L., (47) 1358
Foster, N. B., (12) 1190, (14) 2017
Foster, W. B., (77) 2099
Fothergill, W. E., (24, 26) 1798
Foulerton, A. G. R., (27) 1196
Fourneau, E., (26) 2101
Foust, E. H., (43) 857
Foutsche, C. R., (150) 1879
Fowler, E. P., *118
Fowler, J. S., (6) 277
Fowler, O. S., (64) 941
Fowler, R. H., (80) 1685, (99) 1796
Fowler, R. S., (62) 857
Fox, C. P., (144) 1562
Fox, H., (121) 180, (72) 618
Fox, J. C., (8) 1616
Fox, L. A., (71) 371
Fox, R. F., (7) 869
Fox, R. H., (107) 469
Fraenkel, E., (44) 1456, (37) 2102
France, J. I., *652
France, J. J., (84) 275
Francini, M., (80) 1802
Francis, E., (96) 1032
Francisco, C. B., (112) 1616
Francke, E. O., (144) 1879
Frank, E., (101) 92, (61) 2024, (32) 2102
Frank, J., (104) 179, (122) 180
Frank, L., (90) 703, (143) 1110, (10) 1526, (97) 2020
Frank, M., *1373
Frank, R. T., (83) 1529
Frankel, L. K., (13) 1875
Fränkel, M., (73) 1279
Fränkel, S., (94) 1623, (132) 1692
Frankenthal, L., (57) 281
Frankl, O., (105) 93
Franklin, L., (87) 1453
Franz, R., (58) 1113
Franz, V., (80) 1366
Fraser, F. R., (18) 2168
Fraser, H., (37) 2022
Fraser, J., *17
Fraser, J. S., (15) 545, (24) 943
Fraser, K., (1) 620
Frattin, G., (117) 378, (46) 1619
Frazer, T., (77) 542, (123) 778, (66) 1193, (45) 1685
Frazier, B., (55) 1358
Frazier, C. H., 535, 934, *1119, (9) 1189, (68) 2095
Frazier, W. L., (92) 1193
Freeland, J. R., (16) 1029
Freeman, A. H., (47) 274
Freeman, A. W., (76) 2099
Freeman, G. H., (69) 1108
Freeman, J. A., (74) 1796
Freeman, L., (20) 1357, (26) 1940
Freeman, R. D., (30) 1875
Freer, H. B., (42) 370
Freer, O. T., (69) 84, (67) 468
Freericks, F. H., (68) 1032
Frehn, W., (38) 90
French, S. R. W., (122) 1530
French, R. L., (78) 1108
French, R. W., (133) 86
Freund, E., (97) 1923
Freundlich, D. P., (28) 857, (63) 2099
Frey, R. (69) 282
Freyer, P. J., (14) 88
Friberger, R., (69) 702, (85) 784
Friedberg, S. A., *1654
Friedenthal, H., (81) 1115, (69) 549
Friedenwald, J., 1788
Friedlander, A., (74) 371
Friedman, G. A., (51) 1451, 1867, (54) 2097
Friedman, H. M., (141) 86, (68) 1528
Friedman, L., (137) 1361
Friedmann, A., (76) 1690
Friedrich, P. L., (85) 284, (59) 548, (110) 949
Fringer, W. R., (75) 84
Frisch, J., (130) 1692
Frisco, B. (132) 94
Frissell, L. F., *509
Fritz, M., (71) 863
Fromme, F., (96) 376
Fromme, W., (71) 1366
Frommer, V., (31) 89
Frost, W. D., *821
Frost, W. H., (85) 941
Frothingham, C., Jr., (89) 84, (41) 939
Frugoni, C., (55) 1278
Fruhinsholz, A., (44) 1197
Frumerie, K., (39) 2172
Fubini, E., (111) 1039
Fuchs, A., (98) 1950
Fuhrmann, L., (95) 1690
Fuji, K., (14) 1455
Fulchiero, A., (87) 188, (76) 1802
Fuld, E., (44) 90
Fuller, E., (82) 618
Fuller, G. W., (121) 1110
Fuller, S. S., (50) 774
Fullerton, W. D., (144) 180
Funk, C., 1525, 1610, (14, 15) 2168
Funke, (128) 2028
Funke, K., (57) 1535
Funkhouser, E. B., (20) 2168
Funkhouser, W. L., (24) 1358
Fuqua, E. M., (141) 544
Furniss, H. D., (118) 619
Fursey, F. R., (123) 1194
Fürth, (114) 551
Fusco, V., (101) 285
Füth, H., (135) 1693

G

Gachet, (55) 1947
Gadelius, B., (147) 380, (83) 784, (142) 868
Gaenslen, F. J., (9) 692
Gaither, J. G., (97) 85
Galewsky, E., (67) 1365
Gallagher, G. H., (2) 372, (31) 373
Gallagher, J. F., (137) 544
Galli, G., (105) 1951, (160) 2027
Gallie, W. E., (4) 81, (24) 615, (60) 940
Galloway, H. P. H., (7) 81
Galloway, J., (13) 88
Gammeltoft, S. A., (150) 380
Gamma, C., (56) 475
Gammon, J. E., (20) 1612
Gamper, E., (107) 1039, (93) 1950, (123) 2028
Gant, S. G., (143) 180, (94) 469, (71) 1032
Garbat, A. L., *489
Gardiner, J., (131) 469, 508, (97) 1616
Gardner, L. U., (155) 180
Gardner, W. S., *1831
Garel, J., (51) 1036
Garratt, J. M., (26) 1030
Garrett, F. D., (131) 2021
Garrison, F. H., (77) 371
Garrison, P. E., (9) 538
Garrison, S. P., (74) 179
Gasperini, U., (22) 780
Gates, I. N., (5) 773
Gaujoux, E., (31) 781
Gaupp, R., (68) 1536
Gautier, P., (15) 2170
Gavronsky, J. O., (36) 621
Gay, (48) 1277
Gay, F. P., (11) 937, (50) 1527
Gayet, G., (51) 945
Gaylord, H. R., *968
v. Gaza, (66) 1948
Gebhardt, H., (89) 703
Gehrmann, A., (48) 774
Geist, E. S., (3) 692
Gekler, W. A., (68) 1193
Gellhorn, G., *196
Gelpi, M. J., (83) 371
Gemmill, W., (9) 277
Genewein, F., (58) 548
Gengenbach, F. P., (29) 540
Gennerich, W., (85) 1949
Genoese, G., (80) 2106
George, A. W., (18) 82, (42) 1031, (48) 1192, (16) 1612
George, E. J., (100) 1453
George, W. S., (6) 1530
Gephart, F. C., (53) 467, (3, 4, 6) 2094
Geraghty, J. T., (91) 696, (49) 1876, (95) 2020, 2162
Gerber, I., (48) 1192, (16) 1612
Gerding, W. J., (75) 179
Gerhartz, H., (55) 1113
Géronne, A., (67) 1689
Gerson, K., (74) 1279, (102) 1459, (77) 1949
Gerstenberger, H. J., 2165
Gerster, J. C. A., *1900
Gerstley, J. R., (5) 1105
Gerulanos, W., (58) 623
Gessner, H. B., (85) 371, (133) 778, (133) 942
Gessner, W., (100) 865
Getchell, A. C., (22) 2018
Getman, W. T., (106) 275
Geyser, A. C., (38) 1197, (127) 1943
Ghedini, G., (106) 377, (110) 626, (110) 705, (71) 1802, (34) 2172
Ghon, A., (49) 1113
di Giacomo, G., (98) 1117
Giannelli, A., (94) 1537
Gibbes, J. H., (124) 543, (125) 1275
Gibbon, J. F., (31) 774
Gibson, A. G., (40) 944, (9) 1454
Gibson, C. L., (23) 1450, (76) 1615, (25) 1940
Gibson, G., (58) 857
Gibson, R. B., (109, 110) 1529
Gibson, T. T., (42) 541
Giesecke, A., (110) 1039
Giffin, H. Z., (95) 1878
Gifford, H., (114) 469, (101) 858, (135) 1194, (10) 1357, *2130
Gigon, A., (38) 1533
Gilbert, G. B., (33) 272
Gilbert, J., (161) 87
Gilbert, R., (61) 1108
Gilbreth, B., 145, (18) 2018
Gilbride, J. J., (101) 543, (120, 146) 697
Gilcreest, E. L., (140) 942
Gilfillan, J. S., (46) 1685
Gillespie, W., (92) 696, (107) 1194
Gillespy, T., (159) 544
Gilliam, D. T., 174, (115) 2020
Gilliland, C. E., (26) 1612
Gilmour, A. J., *582, (103) 777
Ginestous, E., (51) 1688
Gins, H. A., (89) 1623
Ginsberg, G., *1205
Ginsburg, H., (25) 693, (3) 855, *1822
Ginsburg, M., (97) 1529
Ginsburg, N., (113) 1032, (20) 1106
Girard, L., (35) 1364
Girardi, P., (46) 90
Girdwood, G. P., (51) 1614
Girode, (37) 374
Girsdansky, J., (121) 1943
Giunta, G. De G., (128) 94
Giessing, H., (105) 1118
Glaser, W., (67) 702
Glasewald, H., (39) 1534, (76) 2025
Glasgow, M., (102) 1796
Glass, E., (77) 1690
Gleason, E. B., (58) 541, (18) 1612
Gleason, W. S., (74) 542
Glegg, W., (37) 621
Glénard, F., (23) 699
Gley, E., (26) 546
Glogau, O., (26) 857, (100) 1274
Glomset, D. J., (11) 1190
Glover, J., (22) 1455
Glynn, E. E., (31) 1034
Goddu, L. A. O., (29) 1191
Godlewski, H., (43) 546, (36) 1618
Goebel, T., (33) 700
Goepp, R. M., (71) 2099
Goff, A. P., *1148
Goffe, E. G. L., (14) 1111
Gogarty, O. S., (30) 943
Goldberg, B., (115) 1691
Goldberg, J., (45) 90
Goldenburg, M., (33) 1795
Golder, C., (107) 1194
Goldman, M., *1754
Goldmann, R., (53) 185
Goldsborough, F. C., (100) 275
Goldscheider, A., (54) 1365, (30) 1533, (64) 1620
Goldschmidt, S., 2163
Goldspohn, A., (5) 176
Goldstein, K., (63) 1278
Goldstein, M. A., (80) 1274, (65) 1685, (49) 1876
Goldthwait, J. E., (8) 1611
Goldwater, S. S., (82) 542, (13) 1683
Gonin, J., (56) 623
v. Gonzenbach, W., (65) 1198
Good, W. H., (113) 942
Goodale, J. L., (34) 1941
Goodall, A., (3) 1797
Goodall, E., (8) 88, (18) 183, (7) 1623
Goodenow, N. H., (128) 697
Goodhart, J. F., (12) 88
Goodhart, S. P., 77, (93) 1878
Goodman, C., (165) 180, (30) 1030
Goodman, S., (31) 942
Goodwin, G. M., *2041
Goodwin, H. T., (156) 180
Goodwin, O. P., (69) 371
Göppert, E., (76) 92
Gordin, S., (116) 93
Gordinier, H. C., (14) 938
Gordon, A., (124) 85, (69) 857, (4) 937, 1868, 1936
Gordon, E. I., (100) 1616
Gordon, G. S., (117) 858
Gordon, L. E. *301
Gordon, M. A., (129) 1797
Gordon, R. G., (7) 698
Gordon, T. E., (17) 620
Gorgas, W. E., (80) 618
Goriaew, N., (67) 375
Göri, L., (42) 184
Gorstarzu, A., (152) 1694
Gosset, A., (42) 862
Goto, S., (66) 783
Gotschlich, E., (75) 1621
Gott, T., (70) 1200
Gottlieb, M. J., (115) 697
Goubert, G., (30) 1112, (34) 1618
Gould, A. P., (1) 1275
Gould, E. P., (4) 1453
Gouldlioud, P. K., (75) 1197
Gourdet, J., (31) 184
Goux, L. J., (68) 468
Gowdy, E. L., (81) 1796
Goyder, P. W., (135) 469
Grabfield, G. P., (47) 82
Grabowski, A., (84) 1199
Grace, C. M., (78) 1193
Grace, J. J., (33) 698
Grad, B., (114) 1360
Gradle, H. S., (27) 82, (67) 84, (183) 87, (30) 616, (9) 1357, (104) 1529, (36) 1795
Graef, C., (106) *1205, (61) 1528
Graefe, G., (72) 283
Grafe, E., (52) 90, (51) 374
Graff, H., (34) 700
Graham, C. F., *505
Graham, E. A., (68) 775
Graham, H. F., (64) 857
Graham, J., (104) 1685
Graham, J. D., (102) 1032
Graham, R., (89) 696
Graham-Rogers, C. T., (20) 177
Graham-Stewart, A., (37) 1687
Gram, C., (155) 1694
Grande, E., (99) 1117
Grandy, C. C., *1237
Graner, (54) 375
Granger, F. B., (106) 1796

Granger, J. P., (24) 1112
Grant, E. O., (129) 1361
Grant, J., (136) 276
Grant, J. D., (24) 1945
Grant, W. W., (125) 1361
Grassberger, M., (87) 1366
Grassberger, R., (87) 1366
Grasser, O., (53) 1801
Grasset, (40) 1618
Grassmann K., (43) 474
Gratiot, H. B., (55) 178
Graul, G., (62) 1278
Graves, F. S., 465, (128) 1361
Graves, J. H., (136) 1275
Graves, L., (130) 86, (84) 542, (51) 857, (104) 1194, (83) 1453
Graves, M. L., (15) 1450
Grawitz, P., (62) 863
Gray, A. W., 265
Gray, B. F., (38) 1192
Gray, G. M., (84) 1109
Gray, H. M. W., (21) 2100
Gray, R. S., (15) 368
Gray, W. E., (77) 275
Grayson, C. P., (75) 1274
Grayson, C. T., (110) 543, (80) 1943
Greeff, R., (12) 1357
Greeley, H., *492, (122) 697, (123) 942, (90) 1360
Green, A. S., (132) 697, (97) 858, (108) 1453
Green, C. E., (13) 545
Green, F. R., (107) 275, (108) 543, 564, (32) 694, 768
Green, L. D., (132) 697, (97) 858, (108) 1453
Green, R. M., (40) 1614
Greene, C. L., (79) 1193
Greene, H. C., (13) 1357
Greene, S. F., (78) 275
Greenwald, I., (11, 14) 2096
Greenwood, J., (138) 2021
Gregg, A., (20) 1526
Gregg, D., (44) 82, (24) 1527
Greggio, E., (94) 1367
Gregoire, R., (50) 2024
Gregor, A., (124) 551
Greig, E. D. W., (26, 27) 621, (19) 1363
Greil, G. J., (117) 543, (31) 1875
Greiwe, J. E., (55) 541
Gremonese, G., (106) 866
Grenacher, (51) 281
Griffin, E. H., (101) 696
Griffith, J. D., (14) 81
Griffith, T. W., (19) 545, (30) 1880
Grigsby, G. P., (68) 371, (84) 1796
Grissom, J. T., (22) 2096
Groak, F., (56) 1882
Grober, J, (49) 281, (110) 551, (76) 624, (66) 1365, (84) 1949
Groenendijk, M. H. J., (140) 552
v. Groer, F., (63) 1801
Gross, E. G., (103) 625
Gross, G., (36) 1881
Gross, W., (46) 1535, (70) 2025
Grossman, M., (82) 1529
Grote, H. W., (36) 467
Grove, M. M., (37) 541
Grove, W. E., (113) 1685
Grover, A. L., *1487
Groves, E. W. H., (11) 778
Gruber, C. M., (5) 855, (19) 1794
Gruber, G. B., (107) 93, (88) 1117, (87) 1623
v. Gruber, M., (74) 1457
Grulee, C. G., (2) 367, *410, (126) 858, (8) 1272, (3) 1682
Grunbaum, O., (11) 860
Grünberg, J., (57) 2024
Grund, M., (57) 1358
Grundmann, (52) 1278
Gruner, O. C., (3) 778
Grunert, E., (90) 1280
Grünwald, E. B., (114) 93
Gsell, J. F., (72) 275
Gubergritz, M., (57) 375
Gudernatsch, J. F., (1) 1189
Guedel, A. E., (63) 1273
Guérin, J., (54) 945
Guerry, L., (127) 1275
Guggisberg, H., (81) 947
Guglialmelli, L., (116) 1367, (88) 1803
Guilfoy, W. H., (20) 1875
Guinon, L., (23) 183
Guiteras, G. M., *29
Guizzetti, P., (106) 1951
Guleke, N., (67, 68) 946
Gullan, A. G., (6) 1944
Gullbring, A., (133) 626
Gundelach, C. A., (78) 1274
Gundrum, F. F., (20) 774
Gunson, E. B., (1) 1685
Gurd, F. B., (82) 84
Guth, A., (58) 1278
Guthrie, A. C., (9) 544
Guthrie, C. C., *1823
Guthrie, J. A., (129) 1616
Guthrie, J. R., (63) 695
Guthrie, L. V., (147) 1879
Guthrie, T., (16) 1945
Gutierrez, A., (146) 1694
Gutierrez, P., (157) 87
Gutman, J., (36) 1107
Gutmann, C., (64) 1948
Guy, J., (14) 545
Guyot, F. L., (14) 177
Gwyn, N. B., 80
Gwyther, A., (22) 1276

H

v. Haberer, H., (93) 284, (57) 475, (103) 704, (53) 782, (54) 1113, (47) 1619, (58) 1882, (118) 2028
Haberland, H. F. O., (129) 2028
Haberman, J. V., *1141, (72) 1615
Hackenbruch, P. T. L., (77) 864, (41) 1881
Hackländer, (74) 1620
Hada, B., (79) 1280
Hadden, D., (10) 176
Haeberlin, J. B., (30) 467, (81) 2019
Haenel, F. P. M., (62) 1801
Haenisch, F., (98) 625
Haffkine, W. M., (25) 2022
Hagan, A. E., (46) 2096
Hagemann, J. A., (62) 468
Haggard, W. D., 1524
Haglund, P., (125) 706
Hagner, F. R., (161) 180, 465
Hague, E. W. J., (115) 1530
Hahn, A., (74) 863
Haim, E., (66) 1366
Haines, T. H., (43) 82, (41) 273, (126) 619
Haines, W. D., (56) 468, (99) 2020
Halban, J., (42) 374
Halberkann, J., (58) 2103
Hall, A., (36) 1451
Hall, D. C., (111) 275
Hall, G. W., *1384, (39) 1451
Hall, H. C., (116) 372
Hall, I. C., (16) 466
Hall, I. W., (4) 1879
Hall, J. N., 1789
Hall, M. A., *1972
Hall, M. W., (54) 1942
Hall, W. S., (82) 941
Hall-Edwards, J., (2) 1278
Hallarman, H., 459
Haller, M., (42) 944
Hallock, R., *15
Halpenny, J., (33) 177, (22) 2100
Halpern, J., (56) 1619
Halsted, W. S., *1653
Hamann, C. A., (49) 1107
Hamburger, F., (35) 90, (82) 703, (52) 1113
Hamburger, W. W., 1103, (88) 1109, *1745
Hamill, P., (28) 1196
Hamill, R. C., (40) 1451
Hamilton, H., *1755
Hamilton, J. O., (16) 2100
Hamilton, W. D., (131) 276
Hamman, L., (51) 541
Hammar, J. A., (160) 380
Hammer, F., (87) 625, (72) 1620
Hammer, L., (47) 1456
Hammerschmidt, J., (94) 1950
Hammesfahr, C., (76) 947
Hammond, F. C., (143) 1879
Hammond, L. J., (147) 697, (134) 1194
Hanauer, W., (100) 948, (83) 1280
Hanck, (74) 623, (53) 1619
Hancken, W., (118) 551, (84) 1037
Hancock, C. R., *1065
Hancock, T. B., (106) 1616
Handley, W. S., (17) 88, (127) 469, (19) 1945
Handrick, E., (79) 284
Hanes, F. M., (115) 276, (87) 1685
Hanes, G. S., (93) 85
Hanger, F. M., (25) 857
Hannaford, H. E., (76) 1453
Hannes, W., (46) 474
Hans, H., (99) 550
Hansell, H. F., (101) 1274, (62) 1528, (143) 1797
v. Hansemann, D., (34) 1112
Hansen, P., (69) 775
Hanzlik, P. J., (70) 695, (53) 1107, (32) 1451
Harbitz, F., (166) 628, (109) 1624
Harbold, J. E. L., (72) 1796
Harbridge, D. F., (33) 82
Harding, V. J., (36) 1358, (15) 2096
Hardt, H. G., (44) 1451
Hardy, W. F., (108) 942
Hare, H. A., 937
Haret, (46, 49) 622
Harf, A., (68) 1948
Harlow, W. F., 1028
Harman, G. G., 1017
Harmens, W., (18) 1617
Harmer, T. W., (43) 1031, (47) 1107, (31) 1191, (49) 1273
Harmer, W. D., (21) 943
Harmon, S. E., (126) 1033
Harms, F., (8) 1272
Harnsberger, S., (106) 1685
Harr, A., (68) 1948
Harrar, J. A., (53) 1273
Harrass, (88) 1280
Harrington, A. W., (19) 943
Harrington, M. A., (5) 1939
Harrington, T. F., L., (38) 82
Harris, D. F., (33) 1358
Harris, E. E., (119) 619
Harris, L. L., *3
Harris, L. J., (29) 1684
Harris, M. L., (112) 858
Harris, S. T., (129) 778
Harris, W. A., (58) 1452
Harris, W. H., (69) 1795, (114) 1943
Harrison, E. M., (39) 541
Harrison, G. T., 2091
Harrison, R. G., 1310, 1448
Harrison, W. G., (127) 543
Harrison, W. T., (38) 1941
Harrower, H. R., (34) 546
Hart, C., (96) 1690, (65) 1948
Hart, D. B., (19) 1276
Hart, K., (76) 91
Hart, T. S., (7) 614, (33) 1107
Hartert, W., (37) 1456
Hartman, G. W., (42) 1192
Hartman, H., (164) 87
Hartmann, E., (67) 1199
Hartmann, H., (36) 374, (42) 2023
Hartoch, O., (64) 375, (125) 551
Hartshorn, W. E., *1755
Hartshorn, W. M., (6) 1682
Hartt, W. G., (155) 698
Harttung, H., (56) 281, (75) 623
Hartz, H. J., (4) 466, (98) 1274, (6) 1526
Hartz, W., (101) 469
Hartzell, M. B., (10) 614
Hartzell, T. B., *1055
Harvey, E. N., (16) 1794
Harvey, W. F., (38) 621, (18) 1363
Harzbecker, O., (47) 184
Hasebroek, K., (58) 1365
Haskell, C. C., (92) 1685
Haskell, H. A., (45) 178
Haskell, H. S., *890, (100) 1360
Haskin, W. H., (18) 272, (66) 2019
Haskins, H. D., 2165
Haskins, J. B., (144) 544
Haslam, T. P., (46) 2096
Haslund, O., (140) 868
Hass, J., (96) 284
Hatai, S., 1935
Hatch, F. F., (27) 1191
Hatch, W. S., (53) 1453
Hatori, J., (11) 372, (1) 942
Hatta, Z., (123) 1039
Haupt, (79) 1690
Havas, J., (98) 1690
Havens, W. C., (33) 272, (1) 855, (2) 1189
Hawes, J. B., Jr., (10) 368, (4) 1793, (29) 1941, (21) 2018
Hawk, P. B., (26) 272, (39) 939
Hawley, G. W., (6) 81
Hawley, J. B., (126) 372
Hawn, C. B., (3) 1357
Haycraft, J. B., (30) 1363, (39) 2022
Hayden, R., (56) 520
Haynes, I. S., 1790
Haynes, R. H., (152) 1195
Haynes, R. S., 2094
Hazen, H. H., *958, (121) 1453
Head, G. D., *991, (81) 1193
Head, J., (59) 468
Heald, C. L., (167) 180
Healy, W. P., (130) 1879
Heaney, N., (95) 865
Heath, F. C., (25) 2018
Heaton, T., (7) 1879
Hebberd, R. W., (1) 773
Hecht, H., (54) 475
Hecht, S., (16) 693
Heddaeus, A., (46) 1112
Hedenius, I., (135) 94, (162) 627
Heffernan, P., (1, 3) 87
Heffron, J. L., 1028
Heffter, A., (41) 1112
Heger, P., (120) 1202
Hegner, C. F., (26) 1684
Hehir, P., (30) 621
Heiberg, K. A., (170) 628, (107) 1118
Heidelberger, M., (78) 1876, (87, 88) 1877, (19, 20) 2096
Heidingsfeld, M. L., (130) 942
Heigel, A., (95) 865
Heijl, C. F., (143) 627
Heile, B., (59) 623, (33) 1112, (92) 1117
Heiman, H., *983, 2093
Heiman, W. J., *1463
Heineberg, A., (4, 5) 1874
Heineck, A. P., (27) 467, (148) 1195, (88) 1685
Heinemann, P. G., (59, 62) 1358, (45) 2096
Heinrichsdorff, P., (75) 1199
Heinsius, F., (49) 1365
Heinz, H., (53) 548
Heisler, A., (99) 625
Heitger, J. D., (51) 178
Heitmuller, G. H., (145) 544
Heitz, J., (26) 1456
Heizer, W. L., (63) 371
Hekman, J., (136) 867
Hektoen, L., *1985
Heller, E., (58) 1036
Heller, F., (107) 93
Hellier, J. B., (22) 1798
Hellman, A. M., (6) 1029
Hellmuth, (73) 283
Hellström, N., (151) 552, (99) 1803
Helmick, A. G., (122) 619
Hemmeter, J. C., (40) 939, 1873
Henderson, A. C., *495
Henderson, C. R., (26) 177
Henderson, D. K., (4) 1939
Henderson, J. P., 2160
Henderson, L. J., (12, 13) 2096
Henderson, M. D., (39) 1527
Henderson, M. S., *140
Hendricks, C. M., (120) 372
Hendriksen, E. M., (74) 1108
Hendrix, B. M., (79) 941
Henes, E., Jr., *1969
Henkes, L. C., (9) 188
Henkin, A. L., (81) 543
Henninger, C. H., (109) 1274
Henrici, A. T., *1055
Henry, B. A., (128) 1275
Henry, R. B., (3) 620
Henry, W. O., (29) 774
Hensel, O., (103) 1796
Heppe, R., (48) 1535
Herbst, O., (86) 92
v. Herff, O., (116) 1691, (108, 109) 2027
Hering, R., (21) 1875
Herlong, M. B., (61) 618
Herman, C., (4) 371, (14) 540, (2) 1105, 1790, 2166
Hermann, E., (61) 1114
Herms, W. B., (41) 1941
Hernaman-Johnson, F., (2) 182, (2) 1940
Herrenschneider, K., (87) 1949
Herrick, F. C., (55) 83, (140) 1194, (96) 1616
Herrick, J. B., *739
Herrick, J. F., (60) 1942
Herron, J. T., (111) 371
Hertel, E., (60) 375
Hertoghe, E., (28) 546
Hertz, A. F., (82, 31) 546, (11) 860, (3) 1111
Hertz, R., (45) 90
Hertzler, A. E., (102) 942
Herweg, H. C., (125) 1616, (146) 1879
Herxheimer, K., (79) 1115
Herz, M., (93) 625
Herzberg, P., (32) 781
Herzog, W., (86) 284, (67) 1115
Hess, A. F., *1395, (47) 1527
Hess, J. H., *1068
Hess, L., (90) 625
Hess, O., (56) 940
Hess, R., (110) 93
Hesse, E., (96) 948, (137) 1693
Hesse, M., (95) 865
Hesselberg, C., (66) 775
Heubner, O., (121) 950
Heuser, C., (45) 1367, (112) 1460, (147, 153) 1694
Heusner, H. L., (102) 625, (72) 2025
Hewes, H. F., (50) 940, (44) 1031, (46) 1107, (30) 1191
Hewitt, A. J., (1) 1880
Hewitt, J. H., (54) 83, (10) 2017
Hewlett, A. W., (47) 90, (99) 1360, (16) 2017
Hewlett, T. T., (22) 183, (28) 861, (27) 1880, (10) 2169
Hexter, M. B.,(48) 2019
Heymann, B., (60) 1365
Heynemann, T., (78) 1115, (105) 1201
Heyrovsky, H., (82) 1116
Higginbotham, T. L., (75) 618
Higgins, T. N., (31) 1363
Highland, S., (181) 87, (156) 544
Hill, H. K., (24) 1191
Hill, H. W., (18) 466, 1181
Hill, L. W., (37) 1875
Hill, O. W., (115) 372
Hill, R. L., (9) 855, (32) 1358
Hill, W., (22, 27) 943
Hilliard, E. M., (58) 2019
Hillman, O. S., (11) 538
Hillmer, R. E., (63) 1795
Hindman, S. S., (16) 1450
Hine, T. G. M., (28) 1196
Hinkelmann, A. J., (109) 619
Hinman, F., 1519, (50) 1876, (95) 2020, *2129
Hinsdale, G., (7) 1686, (95) 1796
Hinselmann, H., (106) 1201
Hinterstoisser, H., (131) 551, (96) 1200
Hiramatsu, T., (126) 1039
Hirsch, E. F., (3) 1362
Hirsch, I. S., (83) 542, (50) 857, (84) 1453
Hirsch, K., (44) 1535, (71) 1620
Hirschbruch, A., (80) 2025, (38) 2102
Hirschel, G., (94) 703, (85) 1199
Hirschfeld, F., (60) 1278, (29, 38) 1533

Hirschfeld, H., (78) 549, (51) 700
Hirschfeld, L., (47) 374
Hirschman, L. J., (93) 1360
Hirsh, A. B., (127) 276, (84) 1529
Hirshberg, L. K., 1347
Hirst, B. C., 175, (112) 2020
Hirst, J. C., (67) 2099
Hirtz, E. J., (52) 2024
His, W., (116) 551, (56) 1535
Hitchcock, C. W., (83) 469, (94) 1360, (65) 1615
Hitchcock, E. H., (83) 1877
Hitchcock, H. E., (75) 275
Hitchens, A. P., (15) 1105
Hnatek, J., (48) 1456
Höber, R., (62) 1365
Hoch, A., (54) 1876
Hochhaus, H., (92) 92, (123) 551
Hodge, E. H. V., (10) 1797
Hodges, J. A., (73) 2099
Hodgson, E. C., (18) 621
Hodgson, F. G., (51) 274
Hoehne, O., (105) 377
Hoepfl, A., (70) 1115
Hoessli, H., (46) 1364
Hoffman, C. G., (90) 1943
Hoffmann, P., (77) 1621
Hoffmann, W., (61) 1619
Hoffmann, W. H., (46) 1456
Hofmeier, M., (106) 625
von Hofmeister, (39, 40) 1456
Hogan, A. G., (34, 35) 1358
Hogan, J. J., (73) 371, *721, (21) 774
Hoge, A. F., (166) 180
Hogue, G. I., (127) 1453
Hohlweg, H., (66) 1535, (81) 1622, (81) 1949
Hohmann, G., (47) 474, (119) 949
Hohmeier, F., (66) 1036
Hoishoit, A. W., (37) 1941
Holden, O. R., (44) 274
Holding, A. F., (8) 271
Hole, K. H., (15) 1880
Holeman, C. J., (140) 620
Holland, C. T., (1) 860
Holland, E. D., *903
Holländer, E., (66) 946
Holler, G., (63) 782
Hollingsworth, J. B., (135) 276
Hollingsworth, L. S., (94) 942
Hollins, T. J., (38) 1196
Hollis, A. W., (85) 1529
Holtopeter, W. C., (144) 697
Holloway, T. B., (146) 1797
Holmes, B., (72) 371, (18) 856, (90) 1109
Holmes, E. M., (13) 272
Holmes, G., (1) 1453
Holmes, H. F., 1525
Holmes, J. B., (47) 616
Holmgren, I., (82) 784
Holsclaw, F. M., (33) 1613
Holst, P. F., (117) 286
Holt, C. S., (42) 1273
Holt, E. E. Jr., (127) 697, (156) 1944
Holt, L. E., *287, (3) 1105, 2165
Holzwarth, E., (79) 1199
Homa, E., (73) 186
Homan, D. C., (139) 1275
Homan, G., 1265
Homan, R. B., (117) 372
Home, W. E., (160) 1944
Hönck, E. E. M., (67) 1620
Hondré, M., (26) 183
Honeij, J. A., (38) 1614, (17) 1683, (43) 1795
Honigmann, F., (50) 862
Hoobler, B. R., (3) 773
Hoobler, S. R., 2094
Hooker, D. R., (17) 1526
Hoover, C. F., (3) 538, (20) 1612
Hope, W. G., (100) 1032
Hopkins, A. H., (22) 938
Hopkins, W., (32) 1527
Hopkins, F. E., (37, 39) 1273
Hopkins, J. G., (61) 1108, (16) 2168
Hopkins, N. M., 1347
Hopkins, S. M., (78) 1796
Hopkinson, D., (148) 620
Hopmann, F. W., (50) 547
Hoppe-Seyler, G., (61) 282
Hopwood, L. L., (91) 1032
Horder, T. J., (33) 1945
Horn, J., (29) 1273
Horne, G. T., (54) 1031
Horowitz, P., (130) 1797
Horsley, J. S., 365, *408, 685, *873, (102) 1685, (24) 1940
Horsley, V., (6) 860, (1) 1033, (41) 1035
Hort, E. C., (2) 1453, (15) 1686, (9) 1879
Hosemann, G., (112) 1691
Hoskins, R. G., (6) 1189, (3) 2167
Hoskins, W. D., (65) 1273
Hossack, W. C., (23) 1363
Host, H. F., (168) 628, (61) 782, (106) 1118, (125, 126) 2028
Hotz, A., (89) 1690
Hotz, G., (95) 92, (80) 947, (88) 1280
Hough, W. H., *972
House, W., (129) 697
Howard, A. A., (33) 1941
Howard, B. F., *1045
Howard, C. E., (77) 84
Howard, C. P., (43) 1876
Howard, E. M., (40) 541
Howard, H. A. H., (37) 944
Howard, H. W., (81) 858
Howard, R., (21) 861, (40) 1946
Howard, R. M., (85) 858
Howard, W. L., (92) 275
Howard, W. T., (10) 2017
Howe, W., (77) 1685
Howell, H. L., (38) 467
Howell, K., (42) 2096
Howells, W. J., (83) 1685
Howitt, H. O., (20) 1617
Howland, J., 2166
Howlett, K. S., 1522
Hoyt, H. F., 2157
Hoyt, W. A., (81) 469
Hubbard, J. C., (18) 1940
Hubbard, T., (73) 275
Hubbard, T. B., (121) 543
Hübner, A. H., (50) 1801
Hudson, T. F., (39) 616
Huegli, A. G., (84) 1615
Huenekens, E. J., (68) 1108
Hueppe, F., (32) 1112, (56) 1278
Huffman, C. S., (66) 274
Huffman, O. V., 1346
Huffmann, M., (99) 865
Hufnagel, V., (45) 1456
Huggins, R. R., (99) 275, (97) 371, 2093
Hughes, E. C., (10) 2100
Hughes, W. F., (26) 2018
Huguley, G. P., (49) 274
Huismans, L., (103) 2027
Hull, E. T., (4) 176
Hull, H. F., (128) 1530
Hull, R. L., (97) 1453
Hultgren, E. O., (163) 627, (86) 784
Humiston, C. E., (33) 1451
Humiston, W. H., (10) 466
Hummel, E. M., (88) 371
Hunner, G. L., (41) 1795
Hunnicutt, J. A., (32) 1191
Hunt, A. L., 1867
Hunt, J. R., (76) 275
Hunt, E. A., *659
Hunt, E. L., (95) 1943
Hunt, J. R., (5) 942, *1138, 2012
Hunt, R., (77) 1193
Hunt, R. H., (90) 542
Hunter, A., (74) 941, (159) 1944
Huntington, T. W., (30) 774
Hurd, H. M., (81) 1453
Hurd, L. M., (13) 85, (148) 1944
Hurley, J. J., (108) 85
Hurley, J. R., (76) 1529
Hurty, J. N., (70) 175, (60) 695
Hurwitz, S. H., (64) 1795, (12) 2017
Hüssy, P., (102) 1691, (109) 2027
Hutcheson, J. M., (90) 1685
Hutchins, H. T., (13) 368
Hutchison, H. S., (24) 1363
Hutinel, V., (36) 1364, (21) 1617
Hyde, A. G., (56) 83
Hyde, I. H., (3) 1189
Hyslop, T. B., (23) 1142

I

Ichikawa, S., (36) 546
Ide, C. E., (63) 1685
Ikeda, Y., (125) 1039
Ill, E. J., (94) 542
Imbert, L., (44) 862, (18) 2170, (20) 2171
Imboden, H. M., (15) 1612
Imrie, C. G., (77) 695
Indemans, J. W. M., (37) 1533
Ingalls, H. A., (101) 1032
Ingalls, N. W., (53, 57) 83
Ingals, E. F., (22) 857
Inge, J. M., (121) 1616
Ingebrigtsen, R., (119) 1282, (151) 2030
Ingenieros, J., (86) 1803
Ingham, S. D., (98) 469
Ingier, A., (118) 1282 (12) 2168
Inglis, J., (97) 942
Inglis, W. D., (130) 180
Ingraham, C. B., (26) 540
Ingram, R., (106) 85
Inman, W. S., (14) 1362
Iredell, C. E., (9) 88
Irk, V. K., (121) 2028
Irons, E. E., (64) 1358, *1552
Irvine, A. R., (78) 858
Irwin, S. T., (1) 1530
Isaac, H., (39) 184
Ishii, O., (83) 84
Ishiwara, F., (16) 1455
Israel, S., (113) 1616, *2130
Ives, G., (96) 1194
Ivy, R. H., *40, (106) 619, (44) 939

J

Jablons, B., *2045
Jaches, L., (111) 1032
Jackson, C., *1906
Jackson, E., (24) 177, (132) 276, (22) 1684
Jackson, J. A., *1650
Jackson, J. B., (90) 1032
Jackson, J. M., (43) 616
Jackson, W. S., (141) 1110
Jacob, L., (66) 186
Jacobaeus, H. C., (153) 627, (135) 1202
Jacobj, C., (61) 1801
Jacobs, C. M., *400
Jacobs, P. P., (45) 370, (34, 45) 2019
Jacobs, W. A., (78) 1876, (87, 88) 1877, (19, 20) 2096
Jacobson, J. H., (6) 176
Jacobsthal, E., (91) 284
Jacoby, A., (102) 696
Jacot, M., (42) 1618, (56) 1947
Jadassohn, J., (60) 1619
Jaffé, H., (55) 2103
Jaffé, R. H., (97) 1950
v. Jagic, N., (94) 284, (80) 864, (83) 1537
von Jaksch, R., (108) 626 (73) 1366
James, H., Jr., 1607
James, T. L., (33) 272
James, W. B., 1607
Jamieson, R. A., (18) 2168
Jamison, S. C., (115) 1943
Janeway, T. C., 1938
Janney, J. H., Jr., (24) 2096
Janney, N. W., (43) 1358
Jappelli, A., (100) 1117
Jardine, R., (18) 1196
Jarno, L., (96) 1950
Jarrell, H. W., 1017
Jarrett, M. C., (42) 82
Jaster, C. O., 1688
Jastram, M., (62) 548
Jaugeas, (46, 49) 622
Jefferson, G., (1) 2022
Jeger, C., (31) 279, (19) 472, (65) 623, (55) 1365
Jehn, W., (44) 1800
Jellett, H., (104) 858
Jenckel, A., (64) 91, (79) 864
Jenkins, G. B., (25) 943
Jenkins, H. E., (120) 1530
Jensen, E. T., (18) 779
Jensen, J., (73) 946
Jensen, V., (123) 706, (111) 1538
Jepson, S. L., (177) 87
Jepson, W., (62) 695
Jesionek, A., (66) 1457
Jesse, R. H., (100) 619
Jianu, A., (54) 281
Joannovics, G., (89) 376
Jobling, J. W., (46) 939, (63) 1108
Jobson, G. B., (21) 857, (115) 1274
Jochmann, G., (44) 184, (96) 550
Johansson, S., (143) 868
Johns, C. O., (79) 941
Johns, F. M., *553, (110) 697
Johns, M. W., (87) 618
Johnson, A., (82) 1453
Johnson, E. J., 1522
Johnson, J. C., (99) 1685, (75) 2099
Johnson, J. H., (74) 618
Johnson, J. T., (114) 1194
Johnson, S. A., (105) 942
Johnson, S. M., (129) 86
Johnson, W., (19) 699
Johnsson, J. W. S., (148) 380
Johnston, C. H., (112) 1878
Johnston, G. B., (134) 778
Johnston, G. C., (109) 1274
Johnston, J. A., (94) 858
Johnston, J. C., (71) 541
Johnston, R. H., (108) 371
Johnston, W. H., (24) 1880
Jolles, W. H., (119) 1460
Joly, P. R., (46) 945
Jones, A. A., 1787
Jones, A. W., (33) 373
Jones, C. O., (7) 1275
Jones, C. R., 1874
Jones, D. B., 1347
Jones, D. H., (20) 1617
Jones, E., (56) 1108
Jones, E. L., *115
Jones, E. W., (88) 1615
Jones, F. A., (152) 276
Jones, G. I., *982, (12) 1105
Jones, H. E., (150) 180, (20) 1196
Jones, L. W., (47, 50) 541
Jones, L. W., *334
Jones, P. L., (100) 179
Jones, R., (7) 620
Jones, S., (15) 1945
Jones, S. F., (11) 81, (66) 941
Jones, W., (71) 695
Jones, W. D., (167) 87
de Jong, S. I., (26) 1456
Jordan, C. B., (59) 1031
Jordan, H. W., (7) 1685
Jordan, N. B., (87) 542, (110) 1194
Jörger, J., (60) 701
Josefson, A., (156) 627
Joshi, M. K., (38) 944
Jost, O., (43) 1364
Joughin, J. L., *988
Jousseaume, F., (31) 861
Jousset, A., (29) 1112, (19) 1455, (16) 2170
Joyce, T. M., (112) 275
Jubb, G., (23) 545
Judd, A., (70) 1528
Judd, C. C. W., *822, (21) 938, *1630
Judd, E. S., 367, (25) 1106, (128) 1110
Judson, A. B., (12) 277
Juettner, O., (86) 1529, (20) 1684
Jump, H. D., (133) 1194
Jundell, I., (165) 627
Jung, C. G., (55) 1108
Jüngling, O., (90) 1623
Junor, K. F., (88) 618
Jürgens, R., (60) 1365
Jürgensen, E., (58) 782

K

Kaarsberg, H., (90) 2106
Kaarsberg, J., (137) 1202
Kaestner, P., (68) 1115, (64) 1457
Kafemann, R., (43) 1881
Kafka, V., (54) 700, (106) 949
Kahane, M., (84) 1116
Kahleyss, M., (100) 704, (90) 1623
Kahlmeter, G., (161) 627
Kahn, A., (65) 1528
Kahn, H., *301
Kahn, I. S., (125) 372
Kahn, L. M., (149) 86, (87) 1615
Kahn, M., *241, (3) 466, *1985
Kaijser, F., (136) 626
Kaiser, (126) 551
Kaiser, F., (36) 90
Kaiser, F. J., (120) 551
Kaiser, L., (114) 1952
Kakels, M. S., (96) 1109
Kaliski, D. J., (95) 1193
Kamimura, N., (131) 1202
Kaminer, (65) 2024
Kaminer, S., (8) 1112
Kampmeier, O. F., (1) 538
von Kamptz, (69) 1036
Kane, R. E., (55) 2019
Kanevshaia, E. L., (121) 705
Kanstoroom, D. S., (91) 1274
Kaplan, A. H., 168
Kappis, A., (90) 549
Karl, F., (70) 1620
Karpeles, S. R., (119) 1453
Karplus, I. P., (83) 1116
Kash, M. C., (89) 1943
Kaspar, F., (60) 281
Kat, J., (98) 188
Kathariner, L., (68) 1801
Katsainos, G. M., (17) 177
Katz, O., (38) 184
Katz, W., (78) 1690
Katzenstein, M., (99) 2025
Kaufmann, E., (82) 1622
Kaufmann, K., (37) 184
Kaufmann, R., (100) 1690
Kaup, J., (72) 1536
Kaurin, L., (16) 1624
Kawamura, K., (61) 91
Kayser, (37) 700
Kayser, P., (74) 2025
Keatley, H. W., (180) 87
Keedy, E. R., 769
Keefe, J. W., (8) 176
Keen, W. W., (77) 1615
Keeton, R. W., (4) 2167
Kehl, H., (68) 1036
Keilty, R. A., (111) 1194, *2123
Keith, A., (4) 2100
Keith, D. Y., (87) 1796
Keith, N. M., (43) 939, (51) 1876, 2162
Kellermann, K., (100, 101) 625
Kellert, E., (1) 1357
Kelley, E. R., (108) 275
Kelley, D. L., (110) 179
Kelley, T. H., *815
Kelling, G., (118) 93, (62) 1198, (134) 1692
Kellner, H. G. W., (111) 1027
Kellogg, E. H., (16) 2096
Kellogg, V. L., (53) 1615
Kellogg, W. H., (45) 1614
Kelly, A. B., (28) 943
Kelly, E. W., (25) 1030
Kelly, H. A., 367, (127) 1110, (111) 2020
Kelly, J. C., (28) 1945
Kelsall, O. H., (50) 371
Kemble, A., (146) 544
Kemp, H. W., *658
Kempf, E. J., (8) 1939
Kempster, C., (8) 1033
Kendall, E. C., (76) 1876, *2042
Kendall, W. B., (50) 1192
Kennedy, A. M., (33) 1276
Kennedy, C. P., (88) 941
Kenyon, J. H., (16) 615
Kepford, A. E., (79) 1108
Kephart, C. F., (63) 178
Kern, L. C., (65) 695
Kerr, A. A., (122) 1797
Kerr, L., (60) 857
Kerr, W. M., (137) 620
Kerr, W. W., (47) 1614
Kerrison, P. D., *109
de Kervily, (45) 2023
Kessel, G., (57) 178

Ketcham, J. M., (58) **1031**
Ketron, L. W., (21) **1684**
Key, E., (163) 627, (80) 784, (136) 1202, (96) **1803**
Keyes, E. L., Jr., (4) **614, 685, *804, 1781**
Kiefer, G. L., **157**
Kiger, W. H., (43) 1941
Kilgore, A. R., (5) **1449**
Killoh, G. B., (8) 620
Kimball, C. P., (105) 93
Kime, J. W., (55) 1942
Kime, R. R., (50) 274
Kimpton, A. R., (18) **1940**, (35) **1941**
King, E. F., (148, 152) **544**
King, E. H., (94) 618
King, E. L., (81) 371
King, J. J., (65) 2019
King, J. M., (36) 1192
King, W. A., (140) 2021
King, W. E., (76) 775
Kingsbury, F. B., (75) 695
Kingsley, S. C., (84) 941, (73) **1108**, (64) 1193
Kinnear, T. J., ***334**
Kinyoun, J. J., (19) **1450**
Kiouka, H., (46) **1881**
Kirby, J. Jr., **1752**
Kirby-Smith, J. L., (48) 274, (57) 618, (108) 1109
Kirchberg, F., (80) 1115, (64) 1535, (123) **1692**
Kirchner, M., (48) **700**
Kirchner, W. C. G., (97) **619**
Kirk, E. G., (6) **638**
Kirkbride, M. B., (19) **2168**
Kirkpatrick, T. P. C., (9) 1033, (21) 1687, (15) 2022
Kirschbaum, P., (83) **1366**
Kirschner, M., (98) 625, (90) 864, (61) **1456**
Kirstein, F., (92) **549**, (22) **1532**
Kirwan, E. W. O., (20) 1363
Kisch, E. H., (90) **1037**
Kisskalt, K., (95) **948**, (70) **1199**, (71, 76) **1690**
Kissmever, A., (82) **476**, (54) 1456, (41) 2172
Kite, G. L., (52) **1358**, (21) 1794
Kittrell, T. F., (37) 959
Klaatsch, H., (78) 91
Klapp, R., (101) **1038**
Klauder, J. V., ***199**
Klauser, R., (41) 700
Kleemann, E., (56) 862
de Kleijn, A., (109) 1538
Klein, A., (60) 186
Klein, G., (97, 99) 2027
Kleiner, S. B., (33) 1875
Kleinschmidt, H., (56) **700**, (77) **1037**, (89) 1690
Klemperer, F., (97) 1459, (63) 2104
Klemperer, G., (125) **951**
Kligler, I. J., (68) **1358**
Kline, B. S., (43-45) **1527**
Kling, C. A., (53) **700**
Klinger, R., (70) **1948**
Klingmann, T., (84) 469
Klinkert, D., (97) 188
Klose, F., (73) 1536
Klose, H., (122) **950**
Klotz, H. G., (90) 275
Klotz, M., (87) **1458**
Klotz, O., (83) 696, (48) **1451**
Klugh, G. F., (142) 276
Klump, J. A., (150) 697
Knaggs, R. L., (3) **778**
Knapp, A., (26) 616, (68) **2019**
Knapp, H. G., (9) 1797
Knapp, P. C., (74) 1274
Knappert, L., (70) 783
Knerr, E. B., (110) **942**, (75) **1452**
Knipe, W. H., (118) 85, (2) 176, (88) 542
Knopf, S. A., (13) 466, **1155, 1383**
Knöspel, L., (52) **1535**
Knott, Van B., ***1577**
Knowles, F. C., (61) **1192**
Knox, H. A., (88) 1796
Knox, J. H. M., Jr., **79, (49) 616**
Knox, R., (3) 1616
Knudson, A., (72) 1357
Kober, G. M., (70) 1193, (39) **2019**
Koch, E., (88) 703
Koch, F. C., (4) **2167**
Koch, R., (95) **1458**, (69) **1620**
Kocher, T., (55) 91, (45) **184**, (40) **1881**
Koefod, H. O., (48) 82
Koehler, G. F., (106) 543
Koenigsfeld, H., (112) **949**, (93) **1280**
Koessler, K. K., **1104**
Köhler, A., (74) 91
Köhler, J., (76) 863
Köhler, O., (50) 1456
Köhler, P., (77) **1949**
Köhler R., (42) 374
Kohlman, W., (78) **2099**
Kohn, H., (27) **2171**
Kolb, K., (103) 1038
Kolipinski, L., (107) **619**
Kolischer, G., **242**, (71) **1360**
Koll, I. S., ***297**, (117) 697, (15) **856**, (107) 858
Kollarits, J., (106) 704
Kölliker, H. T., (73) 1115
Kollock, C. W., (103) 371, (109) 1453
Kolmer, J. A., (71) **618**, (59) 775, ***800, 936**, (1, 11) **1105**, (65) 1358, ***1461, *1966**, (40) **2096**
Kondoléon, E., (83) **1949**
König, F., (63-65), **1036**, (99) 1038
Konjetzny, G. E., (120) **93**
Konkle, W. B., (95) 942
v. Konschegg, A., (93) 703
Kopetzky, S. J., (71) 1685
Kopp, J., (62) **701**
Korach, S., (23) **2171**
v. Koranyi, A., (129) 951
Korbsch, (52) **281**, (47) 1535
Kornmann, F., (101) 2027
Kosmak, G. W., (55) 1273
Kosmowski, A., (33) 781
Kossel, H., (40) **280**
Köster, H., (134) **94**
Kotlowski, S., (55) **1882**
Kotzenberg, W., (35) **700**
v. Kouschegg, A., (120) 2028
Kouwer, B. J., (137) **867**
Kowarschik, J., (77) **1115**
Kozloff, I. T., (139) 379
Kraemer, C., (42) 781
Kraemer, F., (98) 625
Kraker, D. A., (112) 180
Krall, A., (48) 1800
Kramer, P. H., (100) 188
Kramer, S. P., (137) 1944
Krampa, E., (38) 1795
Kraus, R., (103) 93, (50) 782, (95) 1623, (73) **1690**, (124) 1692, (119) 2028
Kraus, W. M., **78**, (12) 1793
Krauss, F., (103) 550
Krebs, G., (86) 1457
Krecke, A., (99) **1280**
Kredel, L., (99) 1623
Krefting, R., (121) **286**
Kreissl, F., (71) **179**
Kremer, F. B., (82) 1193
Kress, G. H., (22) 774
Kretschmer, H. L., (154) 180, ***1050**
Kreuter, E. W., (92) **92**, (34) 279
Krez, L., (86) **1949**
Kriebel, (80) 91
Krieg, F., (72) 1366
Krikortz, G., (133) **1202**
Kriser, A., (106) 551
Krogius, A., (102) 1803
Kroh, F., (67) 186
Kromayer, E., (56) 91
Kronheimer, H., (102) **704**
Krosz, G., (100) 376
Krouse, L. J., (102) 85
Krüger-Franke, M., (50) 700
Krulish, E., ***1748**
Krumbein, , (49) **374**
Krumbhaar, E. B., (14) **1105**, (116, 142) **697**
Krummacher, F. H. J., (105) 949, (92) 1037
Krumwiede, C., Jr., (70) **775**
Kuhn, E., (49) 1882
Kuhn, J. F., (103) 469
Kuhn, P., (51) **1801**, (73) **1949**, (90) 2026
Kuijjer, I. H., (126) 626
Kulka, W., (58) 2103
Kunhardt, J. C., (11) 1033
Kuntzsch, G., (104) 376
Kurlander, J. J., (109) 858
Kuth, J. R., (28) 1875
Küttner, H., (70, 72) 623
Kuznitzky, E., (37) 1112, (48) 1365

L

Labaree, M. S., (71) 1193
Labett, G. L., (41) 1527
Lacapère, G., (47) 862
Lackner, J. E., (98) 2020
Lacroix, P., (35) 861
Ladd, M., (58) **83, 2165**
Ladd, W. E., (20) **467**
Ladinski, L. J., (135) **1110**
La Fétra, L. E., (5) **1682**, (116) 1797
Laffont, A., (43) **2023**
La Force, F. B., (49, 50) 1358
Lagane, L., (39) 1618, (21) 2171
Lagoutte, (56) 945
Laidlaw, P. P., (11) **1362**
Laing, J. T. C., (29) 372
Laird, A. T., ***427**
Luke, G. B., (69) **1528**
Lakin, C. E., (2) **1453**, (9) **1879**
Lamare, (19) 278
Lamas, A. **530**
Lamb, D. S., (173) 87
Lamb, E., (88) 2020
Lamb, R. S., (103, 118) 1453, (150) 1844
Lambert, A., (99) **777**
Lambertz, K., (89) 284
Lameris, H. J., (77) 476
Lampson, H. G., **1180**
Lamson, O. F., (78) 1685
Lamson, P. D., (72) 1193, **2163**
Landau, L., (54) 862
Landé, L., (51) **90**
Landis, H. H., (36) 2019
Landolt, E., (121) **276**
Landors, F., (41) 1364
Landouzy, L., (38) **546**, (24) **2171**
Landrum, S. H., (137) 180
Lane, C., (29) 621
Lane, R. N., (40) 1527
Lane, W. A., (1) 1879, (5) **2100**
Langdon, F. W., (74) 1360
Langdon, H. M., (12) **1940**
de Lange, C., (134) **379**
Lange, C. C. A., (88) 1529
Lange, F., (99) 1038
Lange, G., (94) 1458
Lange, J., (101) 1623
Lange, S., (83) 179, (86) 941, (59) 1685
Lange, W., (51) **281**
de Langen, C. D., (78) **476**
Langer, J., (54) 1535
Langhorst, H. F., (95) 618
Lanier, L. H., (168) 87
Lankford, J. S., (132) 1275, (70) 1915
Lannois, M., (38) 861, (46) **2024**
Lanz, O., (78) **187**, (130) 1039, (111) **1201**
Lanza, C., (143) **1694**
Lanzilotta, R., (116) 866
Lapenta, V. A., (101) **2020**
de Lapersonne, F., (27) 699
Lapham, M. E., (97) 469, (127) **778**, (54) 2019
Laquerrière, (21) **1532**
Larat, J., (50) 1036
Larkey, C. J., (100) **1796**
Laroche, G., (46) 1946
LaRoque, G. P., (86) 1685
Larrabee, R. C., (13) 856
Larson, W. P., (21) **2168**
Lassalle, M., (27) 183
Lassen, J. (224) **548**
Lasseur, P. (49) 945, (50) **1688**
Lathrop, W., (140) 1879
Lattes, L., (131) 94, (100) 1367
Laughlin, E. O., (54) 774
Laurens, G., **(44)** 1946
Laurent, O., (45) 1688
Lauritzen, A. G., (121) 1282
Lauritzen, M., (139) **1202**, (100) 1459
La Vake, R. T., (64) 1032
Laveson, H., (138) 1797
Lawatschek, R., (91) 1690
Läwen, A., (113) **2027**
Lawhorn, C., (39) 1107
Lawrance, J. S., (140) 1110
Lawrence, G. A., (109) 469
Lawrence, W. S., (131) 544
Laws, J. W., (138) 86
Lawson, A. M., (134) 86
Lawson, C. B., (12) **778**, (17) 2100
Lawson, M. R., (17) **2168**
Layton, O. M., ***824**
Lazar, H., (93, 94) 1117
Lazell, E. W., (19) 1357
Leach, J. J., ***1745**
Learmonth, G. E., (54) 617
LeBaron, J. F., (26) 1875
Le Boutillier, T., (143) 697
Le Breton, P., (73) 857, (130) 1361, (13) 1611
Leclainche, (36) 1277
Leclercq, , (6) 622
LeCount, E. R., ***1041**, (56) **1358**
Le Cron, W. L., (126) 1453
Lederer, A., (23) 1875
Lederer, F., (37) 473
Lederman, I. A., (65) 371
Ledingham, J. C. G., (35) **944**, (10) 1275
Lee, A. W., (43) **1685**
Lee, E. W., (80) **275**
Lee, L., (14) 1450
Lee, M. E., ***1823**
Lee, R. I., ***1307**
Lees, D. B., (32) **1196**
Legros, G. V., (46) 862
Legueu, P., (18) 1455
Lehmann, E., (77) 1457
Lehmann, G., (59) **782**
Lehmann, P., (50) 1036
Leigh, S., (135) 778
Leighton, A. P., Jr., (22) 1272
Leighton, W. E., (106) **179, *2054**
Leimdörfer, A., (76) 1279
Leiper, R. T., (5) 860
Leland, J. T., **2062**
Lemaire, L., (55) 1198
Lemchen, B., (140) 1797
Lemere, N. J., (101) **188**
Lemeland, (26) 2101
Lemoine, G. H., (44) **546**
Lemon, C. H., (108) 1685
Lengfeld, F., (39) 1941
v. Lenhossék, M., (63) **863**
Lennhoff, G., (104) 1038
Lenoble, E., (36) **861**
Lenormant, C., (47) 863
Lent, M. E., (64) 1876
Lent, M. F., ***1973**
Lentz, O., (81) 1690
Lenz, (90) **1623**
Lenz, E. v. K., (57) **2103**
Lenz, W., (67) **1689**
Lenzmann, R., (84) 1280
Leonard, E. F., (80) 179
Leopold, G. H., (115) 705
Leo-Wolf, C. G., (114) 619
Lerch, O., (119) 180
Leriche, R., (71-73) **375**, (53) 945
Lermoyez, M., (45) 1277
Lesage, (34) **861**
Leschke, E., (61) **375**, (92) **625**, (57) 782, (69) **1536**
Lesemann, F. J., (47) **178**
Leslie, R. M., (8) 1686
L'Esperance, E. S., (49) **2097**
Lespinasse, V. D., (38) 1527
Lesser, F., (121) 551, (83) 1690
Leszynsky, W. M., (96) 696
Lett, H., (11) 943
Letulle, M., (37) 546
Levene, P. A., (49, 50) 1358, (79) 1876
Levi, L., (16) 1112
Levine, S. A., (15) **2017**
Levinson, A., (30) 82, (94) 1038, (97) 1796
Levison, L. A., ***326, *1294**
Leviton, M. B., ***1575**
Levy, F., (92) **1949**
Levy, L., (33) **194**, (85) 1690, (43) **1946**, (38) 2102
Levy, M., (98) **1459**
Levy, P., (58) **781**, (52) 945
Levy, R., (110) 85, (54) 178, (73) 623, (21) 1357, (57) 1942
Levy, R. L., **2162**
Levy, W., (112) 1201
Le Wald, L., (80) 1) **1272, *1824**
Lewandowsky, M., (66) 549, (89) **948**
Lewin, L., (57) 1801
Lewinski-Corwin, E. H., (113) 1796
Lewinsohn, J., (61) **548**
Lewis, A. C., (107) 1453
Lewis, B., (22) **1106**, (133) **1361**
Lewis, D., ***410**, (17) 615
Lewis, E. G., (152) 180
Lewis, F., (38) 1074
Lewis, F. O., (87) 1529
Lewis, H. F., (43) 774, (50) 1795
Lewis, M. R., (3) 1272
Lewis, P. A., (35) **369**
Lewis, R. C., (74) **695**
Lewis, T., (18) **699**
Lewis, W. H., (3) 1272, (95) 1616
Lewisohn, R., (85) **618**
Lewy, , (22) **1691**
Lexer, E., (133) **1692**
Libby, G. F., (20, 24) **82**
Libby, W. E., ***1728**
Libman, E., **513, 2163**
Licht, C. de F., (122) 1282
Lichtenbelt, J. W. T., (119) 1460
Lichtenstein, P. M., (112) 1109
Lichtenstein, S., (40) **184**
Lichtwitz, L., (24) **2017**
Lichty, J. A., (145) **697**
Lieb, C. C., ***898**, (4) **1029**, (75) **1193, *2041**
v. Liebermann, L., (84) **549**, (93) **948**
Liebert, H., **1456**
Liebert, E., (91) 2026
Liefmann, E., (67) **2104**
Liek E., (45) **1619**
Lier, W., (85) **92**, (62) **186**
Liesegang, R. E., (136) **1693**
Lieske, H., (64) 1689
Lilienthal, H., (105) 619, (108) 2020
Liljestrand, G., (146) 380
Lillie, H. I., (86) **1932**
Lillie, R. S., (25) 1794
Linck, A., (101) 1459
Lind, H., (143) **379**
Lind, E. E., (94) 1878
Lindberg, H., (151) **627**
Lindborn, O., (157) 627
Linde, J. J., (33) 1875
Lindeman, E., **613**
v. Lindern, (44) 474, (108) **949**
Linder, W., (114) **858**
Lindhagen, E., (87) 784
Lindig, P., (102) 1201
Lindner, E., (96) **1623**
Lindsay, J. A., (6) 183, (2) **277**
Lindsay, J. J., (141) 276
Lindsay, W. S., (7) 1616
Lindstedt, F., (149) 627
Lindvall, H., (141) 627
Linenthal, H., (18) 774, (26) 1527
Link, (63) 375
Link, G., (52) **178**
Linke, R., (64) **548**
Linn, W., (64) **84**
Linroth, K., (146) 627
de Lint, J. G., (73) **783**
Linthicum, P. H., (49) **178**
Linton, E., (56) **1615**
Lintz, W., (104) 1274, (111) 1360
Liokumovich, S. I., (148) 552
Lipman, W. H., (115) 1796

Lipp, H., (89) 864, (82) 1949
Lippman, C. W., (146) 180, (36) 1941
Lipsitz, S. T., ***1052**
Lissovskaia, S. N., (119) **705**
Lister, T. D., (6) 620
Lister, W. T., (15) 1195
Litterer, W., (151) 276, (62) **1452**
Littig, L. W., (53) 1192
Little, C. C., **2156**
Little, R. M., (151) 544, (134) 620
Little, S. W., (92) 1616
Little, W. G., (90) 2020
Litzenberg, J., (35) 541
Livengood, H. R., (117) 180
Livermore, G. R., (109) 371
Livierato, P. E., (123) **378**
Lloyd, J. L., (126) 778, (69) 1193
v. Lobaczewski, A. R., (132) 1692
Lobingier, A. S., (17) 368, (33) 1030
Lobligeois, (23) 2171
Lockard, L. B., (23) 1684
Locke, E. A., (9) **2016**
Lockett, W. R., (137) 86
Lockhart, F. A. L., (51) 617, (23) 1034
Lockhart-Mummery, P., (38) **944**
Lockwood, C. B., ***574**
Lockyer, C., (18) 1798
Loeb, H., (43) 1535
Loeb, H. W., (35) **1273**
Loeb, J., (21) 2096
Loeb, L., (83) 84, ***726**, (65) **775**
Loew, O., (59) **186**, (41) **781**
Loew, P., (20) 1532
Loewe, S., (94) 1438
Loewenthal, N., (58) **1198**
Loewy, E., (79) 549
Logan, S., (112) 697
Lohmeyer, G., (105) **376**
Löhnberg, E., (64) **1114**, (62) 1689, (134) **2028**
Lombroso, C., (92) 1537
Lommen, A. H. M. E., (136) 379
London, J., (96) 618
Long, F. L., (111) 1943
Long, J. W., (129) 1110
Long, W. H., (94) 85
Longard, C., (90) 948, (82) **2025**
Longo, L., (37) **2172**
Loomis, F. M., (88) 1032
Looney, R. N., (34) 1875
Lorange, O., (119) 286
Lorenz, A., (127) 626
Lorenz, K. J. A., (62) 1456
Lorenz, W. F., (133) 1033
Losee, J. R., (51, 52, 57, 59) 1273
Loth, (36, 43) 700
Loubet, (25) 183
Loudon, J., (51) 1192
Loughnane, F. M., (29) **1687**
Louttan, J. L., (3) 81
Lövegren, E., (88) **1117**
Lovejoy, O. R., (21) 177
Lovett, R. W., (4) 692, ***1208**, ***2118**
Low, G. C., (30) **373**, (9) 1195, (30) 1276
Low, H. C., (2) 692
Low, R. C., (16) 545
Lowe, R., (57) 1452
Lowenburg, H., (11) **1874**
Löwenfeld, W., (109) 1691
Lower, F. S., (35) 1451
Lower, W. E., (30) 368, (45) **1031**
Lowry, N. H., (37) 1527
Lowley, O. S., (111) 858
Löwy, J., (123) 94, (57) 185, (55) 375, (66) 1199, (76) **2105**
Lowy, O., ***1559**
Lublinski, W., (29) **2171**
Lubman, M., (111) 1109
Lucas, G., (7) **1530**
Lucciarini, T., (108) 1460
Lucherini, T., (110) 286
Luckett, G. L., (30) 941
Luckett, W. H., (72) 1528, ***2055**
Luckey, J. E., (53) 178
Luckhardt, A. B., (14) **693**
Luden, G., **1610**
Lüdke, H., (71) **1457**
Ludlum, S. D. W., **937**, **1271**, **(6) 1939**, **2014**
Luedde, W. H., (109) 179
Luke, E. C., (112) **619**
Lukens, C. E., (76) 1685
Lumbard, J. E., (91) **179**, ***1757**, (102) 2020
Luna, F., (106) **285**
Lunde, N., (110) 1624
Lundh, K., (149) 380
Lundie, A., (11) 1275, (9) **1362**, (5) **1616**, (5) 2022
Lundmark, R., (146) **952**
Lundsgaard, K. K. K., (146) **868**
Lunney, J., (113) 778
Lusk, G., (46) 616, ***1717**, (82) 1876, (1, 8) **2094**
Lust, F., (84) 92
Lüth, W., (51) 1456
Luttinger, P., (119) **1943**
Lutz, B. R., **(24) 1794**
Lutz, C., (63) **1689**
Lutz, F. J., (98) 619
Luys, G., **(44) 944**
Lyall, H. W., **(64)** 775
Lydston, G. F., (73) 542, (95) **1274**, (112) 1360
Lyle, W. G., **(44) 467**
Lyman, D. R., (40) 1795
Lyman, G. D., (23) 368, (32) 1613
Lynah, H. L., ***1066**
Lynch, F. W., ***813**, **1187**, (28) 1527
Lynch, J. M., (4) 271, (130) **620**, (32) 1030, **1788**
Lynch, K. M., (125) 1797, (25) 1875
Lynch, R. C., (122) 1879
Lynn, W. N., (113) 372
Lyon, B. B. V., (10) 271
Lyon, E. P., (60) 1032
Lyon, M. W., Jr., ***1069**, **1519**
Lyons, R., (139) 778
Lyster, W. J., (100) 1109
Lytle, A. T., (106) **1274**

M

Maase, C., (55) 782, (65) 1620
Mabbott, J. M., (87) 179, (32) 857
Mabon, W., (109) 1796
McAllister, J. C., (116) 1275
McArdle, J. S. (30) 1687
MacArthur, C. G., (80) 941
McArthur, L. L., (130) **469**
McArthur, S. W., (120) **2020**
MacAusland, W. R., ***312**
McBride, H. A., **824**
McBride, J. S., (109) 275
McCafferty, G. W., Jr., (119) 1275
Maccagno, M., (36) **2172**
MacCallum, W. G., (60) 1876
McCarrison, R., (29) 546, (8) 1111, (22) 1363
McCarthy, C. F., (25) 1276
McCarty, F. B., (46) 1451
McCarty, V. W., (107) 1943
MacCarty, W. C., (1) **1449**
McCaskey, D., (100) 777, **(19) 1875**
McCavey, J. S., (124) 2021
McClellan, B. R., (11) 1025
McClintock, J. C., (67) 274
McClure, C. B., (77) 858
McClure, C. W., (53, 63) 1942
McClure, W. B., (115) 93
McCollum, E. V., (48) **1358**, (86) 1877, (25) **2096**
McCombie, F. C., (17) 861
Maccone, L., (103) **1460**
McConnell, J. F., (107) 696
McConnell, R. E., (7) 87
McCool, J. L., (131) 697
McCord, C. P., (3) 1028, (2) **1611**
MacCormick, A., (19) 2100
McCoy, A., (155) 276
McCoy, G. W., (101) 1943
McCoy, W. K., **1017**, (62) **1685**
McCrae, J., (5) **271**
McCrae, T., **173**, (44) 1876
McCready, E. B., (130) 276
McCullough, F. E., (90) 469
MacCurdy, J. T., (40) 467, (55) 1876
McCurdy, S. L., (65) 2099
McCurry, W. T., (37) 82
McDaniel, O., (20) **1029**
McDonagh, J. E. R., (15) 88, (20) 694
MacDonald, A., (179) 87, (137) 276
MacDonald, D. M., (42) 1687
McDonald, E., ***505**
McDonald, J. E., (151) 1879
McDonald, J. W., (176) 87
McDonald, W. M., (39) 621
McDougall, J. B., (33) **1276**
MacDougall, R., (22) 1794
McDowell, I. E., (2) **271**
Mace, L. S., ***897**
Macewen, J. A. C., (14) 698
MacFie, J. W. S., (20) 183, (2, **4, 5**) 372, (27) 1363, (23) 1945
McGannon, M. C., **1522**
McGarty, M. A., (128) 1453
McGavran, S. B., (138) **1944**
McGee, C. J., (128) 543
MacGilchrist, A. C., (23) 621
McGill, C., ***2061**
McGlannan, A., **465**, ***1744**
MacGowan, G., ***226**, (43) **1614**
McGowan, J. P., (32) **944**
McGraw, H. R., (136) 86
McGregor, H. H., **2165**
McGuigan, H., ***1494**
McGuire, F. W., (16) 1615
McGuire, H. H., (104) 1453
McGuire, J. H., (78) **1193**
McGuire, J. W., (70) 275
McGuire, S., (104) **371**
McGurn, W. J., (71) 1528
Machado, R., (106) 1367
Machado, W., (131) 867
Macht, D. I., ***477**, ***1489**, (19) 1684, (75) 1942
Maciel, J., (82) **1803**
McIntire, C., (81) **941**
MacIntyre, D., (5) **1111**
MacIntyre, J., (4) 182, (23) **943**
McJunkin, F. A., (52) **2097**
Mackay, J. H., (154) 698
McKee, A. B., (19) 774
MacKee, G. M., (61) **775**, (63) **1192**, (44) 1685, **2007**, (30) 2018
McKelvey, E., (9) **2022**
McKelvy, J. P., (42) **939**
McKelway, A. J., (21) 177
McKenna, C. H., (131) **1361**
McKenna, C. M., ***2127**
McKenna, P. K., (80) 1796
McKennan, T. M. T., (109) **1274**
McKenty, F. E., (16) 1940
MacKenzie, C., (27) 1687
McKenzie, D., (31) 943
MacKenzie, I., (10) 1617, (23) 2022
Mackenzie, J., **504**
MacKenzie, K. A. J., (122) 1194
MacKenzie, K. W., (3) 471
MacKenzie, M. A., (122) 1033, (123) 1110
MacKenzie, W., (6) **544**
McKeown, W., (51) 1192
Mackie, F. P., (21, 22) 621
Mackie, J. J., (2) **1033**
McKisack, H. L., (4) 1275
Macklem, G. E., (135) 1797
MacLagan, P. W., (5) 2022
McLaughlin, A. J., (63) 1032, **(26)** 1527, (17) 2018
McLean, A., (132) 1361
McLean, F. C., (8) **538**
MacLean, H. S., **366**
McLean, J. D., **1794**
MacLean, R. M., (36) **1358**
MacLennan, A., (18) 943
MacLeod, J. J. R., (25, 27) **368**
MacLeod, J. M. H., (22) 1112
M'Leod, J. W., (37) **1034**
McLoone, J. J., (69) 618
McMahon, J. P., (123) 1453
McMillan, J. F., (11) 1530
MacMillan, M. B., (18) 2100
McMullin, J. J. A., (132) 620
MacMurchy, H., (115) 469
McNally, W. D., **1264**
MacNeal, W. J., (9) 538
M'Neil, C., (15) **943**
McNeil, H. L., ***430**
McPhedran, A., (11) **614**
McPherson, R., (120) 619, (53) **1273**
McRae, F. W., (100) 1685
MacRae, J. D., (68) 941
McReynolds, G. S., (136) 2021
McReynolds, J. O., (165) 87
MacRobert, R. G., (77) 1032, (74) 2019
McSweeny, E. S., (60) **468**
McWeeney, E. J., (22) 861
McWilliams, C. A., (93) 179
Macy, M. S., (95) 1109
Maddox, E. E., (141) 1797
Maddox, T., (143) 276
Madelung, O., (96) 625, (68) 863
Magalhaes, F., (123) 1202
de Magalhães, J. A., (118) 1039
Magalhães, O., (15) 286, (126) 379
Maggiore, S., (108) **285**, (96) 1367
Magi, A., (102) **1951**
Magnus, G., (66, 67) **1036**
Magnus-Alsleben, E., (56) **782**
Magnus-Levy, A., (55) **700**
Maguire, D. L., (102) 371
Maher, L. K., (69) **1358**
Maier, F. R., **1940**
Maille, J. (48) 622, (49) **1688**
Main, D. C., (63) 618
Mair, W., (40) **1034**
Maixner, E., (91) **625**
Major, H., (92) **84**, (48) **90**
Makins, G. H., (19) 182
Malcolm, J. D., (21) **545**
Malejan, H. H. M., (82) 469
Maliwa, E., (105) 551
Malone, B., **1523**
Malone, R. H., ***1651**
Manara, G., (134) **952**
Manchester, J. D., (103) **1943**
Manetta, P., (9) 1537
Manges, M., ***1554**
Manges, W. F., (138) 1879
Manginelli, L., (93) 1537
Mann, A. L., (70) **775**
Mann, A. L., (29) 1527, (81) **1529**
Mann, G., (70) 1032
Mann, R. H. T., (169) 87, (41) 1273
Manning, E. T., ***655**
Mansfield, H., (92) **84**, (48) 1115
Manson, (30) 1618
Manson, W. H., (2) **1033**
Mantelli, C., (103) 285
Maragliano, E., (137) 552, (136) **952**
Maragliano, V., (115) 866, (78) 2106
Marburg, O., (105) 1039
Marcus, H., (152) 627
Marcus, M., (93) 549
Marcuse, E., (76) 549
Marfan, A. B., (53) **622**
Margot, A. G., (35) **369**
Mariani, C., (104) 866
Marie, P., (25) **1112**, (27) 1456, (18) 1532
Marine, D., (52) **1107**, (29) **1451**, (66) 1795
Marinelli, F., (85) 188, (101) **1951**
Marinho, J., (102) **1538**
Marinucci, R. K., (140) 952
Marion, G., (40) 546, (30) 699
Mark, L., (11) **277**
Markham, H. C., (65) 274, (85) 1109
Markoe, J. W., (54, 60) 1273
Marks, H. E., (12) 614
Marks, J., (17) 1875
Marks, L. H., (46) 280
Marmetschke, G., (30) **91**
Marogna, P., (114) **378**
Marple, W. B., (127) 1879
Marriott, W. M., **2162**, **2166**
von Marschalko, T., (62) **1456**
Marshall, A., (29) 1276
Marshall, C. D., (23) 372
Marshall, C. R., (8) 620
Marshall, E. K., Jr., ***573**, ***1230**, **(24) 1612**, **2163**
Marshall, G., (19) **699**
Marshall, G. M., (114) **1274**
Marshall, H. W., (14) 1611
Marshall, J., (73) **1942**
Marshall, J. A., (2) 855
Marshall, J. T. W., (44) **467**
Marshall, W., Jr., (67) 941
Marsiglia, G., (121) 378, (119) 866
Marsteller, A. A., (112) 778
Martelli, C., (119) **378**
Martin, A., (37) **474**
Martin, A. A., (1) 698
Martin, C., (34) 1527
Martin, C. F., (141) **1879**
Martin, E. D., **865**
Martin, E. D., (120) 1879
Martin, E. G., (26) 693, (78) **1193**, (18) 1526
Martin, E. H., **360**
Martin, F., (20) **1940**
Martin, F. H., **2014**
Martin, H. H., (65) 618, (107) **1685**
Martin, J. C., ***1236**
Martin, J. M., (128) 2021
Martin, J. R., (96) 371
Martin, R. V., (51) 1031
Martin, W., (102) 777
Martin, W. B., (13) **620**
Martin, W. F., ***101**
Martin-Du Pan, C., (55) **623**
Martini, E., (82) **624**, (94) 948
Martini, T., (111) 1952
Martinotti, J., (129) 867, (68) 1279
Martius, H., (104) 1201
Marton, A., (85) **1366**
Martone, V., (135) **952**
Marvel, E., (12) **176**
Masay, F., (90) **92**
Mason, A. B., (110) **469**
Mason, A. M., (67) 618
Mason, C. F., **126**
Mason, J. H., **2167**
Mason, J. J., (62) 940, (8) **1029**
Mason, J. M., **365**
Mason, S. L., **1347**
de Massary, E., (29) **699**
de Massary, J., (8) 1880
Massini, L. C., (87) 1537
Matas, R., **367**
Materazzi, C. S., (114) 1039
Materna, A., (70) 1882
Matheny, B. F., (126) 1616
Mathewson, H. S., (78) 1529
Mathieu, A., (31) **1112**, (41) **1277**
Mathsuoka, Y., (30) **1799**
de Matta, A., (104) **1538**
Matthes, M., (107) 1691
Matthews, S. A., (18) 1190
Matti, H., (49) **1800**
Mattill, H. J., **1180**, (10) 1189
Mattill, H. L., (10) 1189
Mattisson, K., (148) **627**
Maul, N., (89) 542, (53) **857**
Maurange, G., (46) **546**
Maurel, (49) **2024**
Maxey, E. E., (105) 543
Maxted, G., (12) 2022
Mayer, A., (35) 184, (64) **282**, (16) 472, (72) **1279**, (26) 1532
Mayer, C., (11) 2022
v. Mayer, J. R., (92) **284**
Mayer, L., (5) **81**
Mayer, M., (46) **781**
Mayer, W., (112) 2027
Mayerhofer, E., (92) 1690
Mayo, C. H., **366**, (124) **1110**
Mayo, W. J., (139) **180**, ***935**, (68) 1274, 1108) **1878**, **2036**, **2090**
Mayo-Robson, A. W., (35) **621**, (20) 1945
Mayor, A., (59) 946
Mayoral, A., Jr., ***146**
Mazza, S., (96) 865, (125) **867**
Meachen, G. N., **820**
Mead, F. B., (65) 1452
Mead, F. N., (65) 1942
Meanus, F. H., (34) 272, (53) 1451
Meding, C. B., (82) 275
Meek, W. J., (13) **1794**
Meeker, H. D., (17) **1272**
Mefford, W. T., (38) **1451**
Mehliss, H., (60) **1801**
Meierhof, E. L., **2007**
Meinshausen, W., (42) **700**
Meisel, P., (104) **2027**
Melchior, E., (40) 90, **(41) 280**, (22) **472**, (75) 549, (71) **1037**, (93) 1117

Melkich, B., (150) 552
Meller, J., (10) 1940
Mellish, M. H., (36) 341
Mello, A. da S., (45) 1112, (127) 2028
Mellon, R. R., (103) 1878
Mellor, L. R., (108) 1274
Meltzer, S. J., (28) 1533, (55) 2024, *2043
Melvin, G. S., (11) 1686
Mencière, L., (23) 861
Mendel, F., (126) 951
Mendel, K., (64) 863
Mendel, L. B., (44, 45) 1358, *1539, (31) 2096
Mendelssohn, M., (35) 1277
Mendenhall, W. L., (71) 1942
Menifee, B. K., (88) 777
Menuet, F., (20) 1455
Mercadé, (48) 945, (17) 2170
Mercier, C. A., (12) 471, (17) 545, (17) 943
Mercier, R., (28) 1618
Merrins, E. M., (52) 1685
Méry, H., (35) 1364, (24) 1617
Messerli, F., (40) 1618
Messerschmidt, T., (64) 1365
Metcalf, C. R., (3) 367, *1234
Metzenbaum, M., (82) 1274, (71) 1876
Metzger, (45) 2023
Meyer, (39) 2102
Meyer, E., (81) 549, (77) 624, (33) 1533
v. Meyer, E., (98) 625
Meyer, F. M., (42) 1881
Meyer, H., (79) 187
Meyer, K. F., (37) 2096
Meyer, L. B., (120) 942
Meyer, M., (59) 1036
Meyer, O. B., (91) 92
Meyer, R., (64) 2104
Meyer, W., (105) 858
Meyerding, H. W., *240
Meyers, A. E., (44) 1613, (8) 1682
Meyers, J., (94) 1943
Michael, M., (68) 549
Michaelis, L., (59) 1278
Michaud, L., (63) 701
Michel, (28) 284
Michel, G., (44) 1197
Michelsen, K., (77) 1199
Michie, H. C., Jr., (98) 696
Michinard, P., (84) 371
Middleton, A. B., *659
Middleton, J. C., (12) 1617
Middleton, W. S., *422, (125) 1453
Miles, A., (21) 1276
Miliani, A., (108) 1281
Miller, A. H., (14) 1531
Miller, C., (28) 1687
Miller, C. J., (121) 2021
Miller, F. R., (17) 1794
Miller, H. A., (149) 697
Miller, H. C., 300, 497
Miller, J. A., (67) 1193, (6) 1686
Miller, L., (67) 1452, (112) 1796
Miller, M., (88) 1360
Miller, R., (11) 698
Miller, R. H., (13) 1190
Miller, S. M., (138) 544
Milligan, W., (29) 943
Mills, L., *1224
Mills, R. W., 1873
Milne, C., (27) 1276
Miloslavich, E., (126) 1692
Milroy, W. F., (61) 1685
Minchew, B. H., (27) 1358
Minerbi, C., (111) 286, (119) 626
Mink, O. J., (128) 1530
Minvielle, (21) 1455
Mirtl, C., (75) 1536
Misch, W., (100) 1951
Mitamura, T., (132) 1202
Mitchell, A. G., (2) 1682
Mitchell, E. W., (12) 1874, (42) 2019
Mitchell, H. C., (42) 1451
Mitchell, J. M., (46) 178
Mitchell, O. W. H., (85) 84
Mitchell, P. S., (86) 1109, (78) 1943
Mitchiner, P. H., (2) 778
Mitra, G. C., (6) 1797
Miura, Y., (128) 1202
Mixter, S. J., (126) 1110
Miyata, K., (67) 783
Miyauchi, K., (64) 946
Mizoguchi, R., (27) 1799
Mizuno, K., (15) 1455
Mobley, C. A., *1316
Mobley, J. W., (55) 1031
Mock, L. E., (76) 1943
Modigliani, E., (67) 475
Moffatt, F. J., (49) 371
Moffett, R. D., (98) 1109, (106) 1878
Moffitt, H. C., (3) 271
Mohan, H., (4) 614
Mol, C. M., (132) 626
Moleen, G. A., (35) 178, (65) 941
Möllers, B., (51) 1801, (73) 1949, (90) 2026
Molony, M., (22) 368, (44) 1614
Mönckeberg, J. G., (45) 781
Monks, G. H., (49) 940
de Monlevade, J., (109) 1952
Monprofit, A., (39, 40) 1277
Montanari, U., (105) 866
Montgomery, D. W., (127) 85, (60) 775, *883, (58) 1528, (40) 1684, (29) 2018
Montgomery, E. E., 175, (22) 177, (117) 2020
Montigel, T., (70) 1948
Montuoro, F., (100) 1201
Moodie, R. L., (104) 2020
Moody, A. M., (154) 180, (2) 367, 1104
Moody, E. E., *1206, (70) 1452
Moon, V. H., (77) 775
Moore, A. R., (15) 1794
Moore, B., 205
Moore, E. C., (36) 273
Moore, J., (14) 1276, (16) 2022
Moore, J. E., (97) 1878
Moore, J. T., (157) 698, (26) 939
Moore, J. W., (10) 1449
Moore, N. W., (76) 179
Moore, R. F., (43) 1035
Moorehouse, G. W., (29) 368
Moorhead, G. C., (54) 1192
Moorhead, T. G., (12) 1195
Moorman, L. J., (134) 180
Moran, J. F., *122
Morawitz, P., (53) 90
Moree, E. A., (61) 274
Moren, J. J., (51) 371, (87, 93) 777
Moreno, S. F. M., (44) 2023
Moreschi, O., (118) 1201
Morgan, D., (16) 1940
Morgan, H. J., (158) 180, (139) 1194
Morgan, W. G., (13) 1105
Morgenroth, J., (50) 475
Morgenstern, K. (88) 1117
Morgulis, S., (24) 693, (72) 695
Mori, T., (28) 1799
Morison, R., (5) 1944
Morison, R. A., (17) 1526
Moritz, F., (82) 284, (92) 703
Moritz, M., (13) 1798
Morley, J., (20) 545
Mörner, C. T., (152) 380
Morris, J. L., (29) 2096
Morris, R. S., (21) 1612
Morris, R. T., (13) 176, (83) 618, 1931, (93) 1943
Morris-Jones, J. H., (11) 943
Morrison, J. R., (95) 85
Morrison, J. S., (59) 2019
Morrow, H., (43) 1685
Morse, A. H., (19) 368, (128) 469
Morse, J. L., (3) 614, 2167
Morse, M., (17) 693, (30) 2096
Morse, M. E., (55) 2098
Morson, A. C., (1) 778
Mort, S., (22) 545
Mortensen, M. A., (40) 857, (61) 1452
Mortimer, J. L., (30) 540
Morton, D., (99) 619
Morton, H. R., (55) 857
Morton, R. S., (116) 619
Morton, W. J., (75) 1032
Mosbacher, E., (99) 376
Moschowitz, A. V., (86) 1360, (21) 1940
Mosenthal, H. O., (30) 272, (56) 1528
Moser, E., (74) 375
Moshage, E. L., (1) 1105
Mosher, E. M., (11) 275
Mosher, G. C., (137) 1110
Mosney, E., (53) 1947
Mossé, A., (19) 278
Most, A., (53) 475
Mosti, R., (116) 626, (98) 1538, (78) 1802, (137) 2029
Moteki, J., (129) 1202
Mothersole, R. D., (11) 2100
Motley, J. C., (124) 1361
Mott, F. W., (4) 860
Mouchet, A., (33) 1618
Mouillot, A. De T., (10) 1879
Moullin, C. M., (13) 615
Mount, L. B., (96) 1943
Moure, E., (47) 1197
Mouriquand, G., (24) 183
Moursund, W. H., (124) 1616
Mouzon, J., (28) 2101
Mowat, H., (14) 620
Mowry, W. A., (57) 468
Moyer, H. N., 691, (33) 1527
Moynihan, B., (103) 858
Mucklow, A. E., (29) 857
Muecke, F. F., (26) 943
Mueller, A., (118) 949, (103) 1038
Mueller, E. H., (10) 2095
Mueller, O. C., (14) 368
Mühsam, R., (102) 92, (55) 862
Muir, J. R., (14) 1880
Muir, R., (38) 1034
Mülhens, (59) 1535
Mullally, E. J., (142) 180
Müller, C. A., (59) 375
Müller, E., (92) 92
Muller, G. P., 536, 1791, (69) 2099
Müller, R., (32) 700
Muller, R. W., (105) 1796
Mumford, A. A., (34) 621
Mumford, J. G., 1447
Muncaster, S. B., (152) 1944
Mundie, G. S., (49) 1941
Munk, F., (76) 1366
Münter, (77) 1366
Münzer, A., (42) 90, (73) 549, (56) 1365
Murbach, E. A., (139) 1944
Muret, M., (22) 278
Murlin, J. R., (4) 367, (3) 773, (23) 1272
Murphy, F. T., (14) 1190
Murphy, J. P. B., (71) 857
Murray, G. R., (19) 1112
Murray, H. L., (2) 698
Murray, J. R., (11) 1686
Muskens, L. J. J., (142) 552, (44) 1035
Mutch, N., (37) 1945, (6) 2100
Myers, C. S., (36) 944, (13) 1195
Myers, D. A., (116) 1110
Myers, V. C., (46) 1358
Myerson, A., (66) 1942

N

Naamé, (45) 546
Nager, F. R., (61) 1365
Nagle, F. W., (27) 177
Nakamura, H., (38) 781
Nammack, C. E., (122) 85
Narath, A., (104) 625
Nash, C. C., (135) 942
Nassetti, F., (128) 867, (144) 2029
Nathan, E., (67) 549, (79) 1115
Nathan, P. W., (6) 692, *1732
Neal, J. B., (1) 367, (9) 773
Neary, B. J., (82) 1943
Nebesky, O., (38) 374
Neel, A. V., (83) 476, (153) 552
Neff, F. C., (101) 619
Neff, I., (6) 937
Negro, F., (81) 864
Nehl, F., (65) 782
Nelll, W., Jr., *299, 1018
Neilson, C. H., *1052
Neisser, A., (41) 1456, (92) 2026, (30) 2101
Neiva, A., (130) 867, (81) 1803
Nelbach, G. J., (63) 274
Neligan, A. R., (40) 2022
Nelken, A., *431
Nelli, L., (77) 2105
Nelson, E. K., (8) 1189
Nelson, J. J. H., (10) 1945
Nelson, L., 360
Nelson, R. M., (69) 618
Nesbitt, G. E., (14) 2022
Nesbitt, P. P., (84) 858
Nesfield, V., (32) 621
Nesper, G., (22) 474
Netter, A., (34) 1881
Neubert, (72) 1949
Neufeld, F., (75) 1621
Neuffer, G. A., (125) 1033
Neugebauer, F., (89) 1367
Neuhof, H., (132) 1110, (122) 1943
Neuhof, S., (13) 538, (119) 697
Neumann, A., (92) 948
Neumann, W., (74) 1690
Neumayer, L., (65) 1365
Neumayer, V. L., (108) 551
Neumeister, (100) 1623
Neve, A., (19) 861, (26) 1276
New, G. B., *34, (66) 1685
Newark, W. E., (73) 469
Newburgh, L. H., (17) 938, (19) 1190, (6) 1793
Newcomb, J. R., (58) 695, (11) 1940
Newcomb, P. B., (9) 1939
Newell, F. S., *393
Newland-Pedley, F., (14) 277
Newman, D., (3) 2100
Newmark, L., (57) 2098
Newnham, W. H. C., (5) 698
Newsholme, A., 410
Newton, R. J., (44) 370
Nichols, E., (78) 618
Nichols, T. C., (95) 777
Nicholson, C. M., 2160
Nicholson, P., (91) 1193
Nicola, B., (63) 475
Nicolai, A., (112) 705, (110) 1281
Nicolaysen, J., (116) 1282, (152) 2030
Nicoll, H. K., (64) 1358
Nicoll, J., (28) 82, *1982, 2164
Nicoll, W., (16) 372
Nicolle, C., (25) 699, (43) 862
Nielsen, R., (124) 1368
Nifong, F. G., 2162
Nigay, (85) 862
Nikitin, M. P., (138) 379
Niles, G. M., (41) 694, (34) 1684
Niles, W. L., (3) 1449
Nilsson, A. C., (137) 626
Niosi, F., (127) 867, (101) 1538
Nivière, G., (47) 1688
Nixon, P. I., (25) 1273, (63) 1528
Nobécourt, P., (26) 781
Nobel, E., (87) 1117
Nobl, G., (103) 949
Noble, C. P., (82) 1685
Noble, F. W., (103) 1360
Noble, G. H., (123) 469
Noble, N., (61) 1942
Noble, W., (55) 1358
Noble, W. L., (65) 84
Nocht, B., (58) 2103
Noeggerath, C. T., (55, 56) 1456
Noehte, R., (84) 624, (71) 1199
Nogier, T., (38) 1881
Noguchi, H., (36) 369, (93) 1796, (13) 2168
Noll, F., (53) 475
Nonne, M., (96) 1280, (65) 1457, (89) 2026, (43) 2103
von Noorden, C., (75) 1366, (69) 1689
Nordenson, W., (144) 627
Nordentoft, J., (120) 1282
Nordmann, A., (82) 947
Nordmann, O., (58) 185, (33) 279, (97) 550, (86) 625, (79) 703, (83) 864, (77) 1279
Norgate, R. H., (4) 1879
Nørregaard, K., (91) 784
Norris, C., (6) 275
Norris, R. C., 1792, (3) 1874
North, E. A., (54) 541
North, J., (119) 85
Norton, W., *1067
Nota, A., (27) 781
Novak, E., *120
Nové-Josserand, L., (43) 1946
Novogrodsky, B., (98) 376
Noyes, W. B., (69) 2019
Nuckols, O. P., (45) 541
Nuijens, B. W. T., (128) 1039
de Nunno, R., (50) 90
Nuzum, F., 2013
Nuzum, T. W. *1238
v. Nyiri, W., (99) 1951

O

Obé, M., (52) 2103
Oberst, A. G., (87) 284
O'Brien, C., (3) 277
O'Brien, C. W., (18) 861
O'Brien, J. M., (3) 372
O'Connell, M. D., (30) 2022
O'Connor, A. P., (13) 1617
O'Connor, B. J., (85) 1193
O'Connor, R., (118) 276
O'Conor, J., (23) 615
O'Day, J. C., (85) 275, (117) 1360
Odell, A., (71) 469
Oden, R. J. E., *816, (42) 857
Odin, M., (94) 1803
Odom, J. A., (134) 1275
Oechsner, J. F., (111) 697
Oeder, G., (75) 1037, (66) 2024
Oehlecker, F., (58) 475, (45) 700
Oehler, J., (64) 186
Oelsner, L., (79) 375
Oeri, P., (68) 2025
v. Oettingen, W. F., (93) 1623
Oettinger, W., (63) 2104
O'Ferrall, J. T., (86) 371, (124) 1879
Oftedal, S., *1968
Ogan, M. L., *3, (97) 1274
Ogata, M., (120, 121) 1039
Ogilvie, H. H., *657
Ogilvy, C., (13) 81
Ogorek, M., (29) 89
Ohkohchi, T., (70) 1036
Ohler, W. R., (84) 84
Ohlmacher, A. P., *585
Ohly, A., (59) 1688
Oinuma, S., (41) 1197
Okada, S., (124) 1039
Olbrich, (49) 1882
Oldenborg, H. A., (36) 1527
Olitsky, P. K., *1134
Oliva, L. A., (59) 475
Oliver, J., (36) 1196, (65) 1795
Oliver, J. C., (121) 619
Oliver, M. W. B., (16) 698, (12) 860
Oliver, T., (25) 861, (8) 1195, (22) 1880
Ollino, G., (41) 1800, (85) 2106
Oloff, H. T. L., (98) 1280
Olsen, E. T., (29) 467
v. Olshausen, R. M., (79) 1949
Olson, G. M., *2060
Olsson, P. M., (142) 627
Oman, C. M., (92) 469
O'Neill, A. A., (28) 467
O'Neill, E. J., (34) 774
Onodi, A., (51) 1113
Opie, E. L., (34) 1201, 369
Opitz, H., (75) 187
Oppell, V. A., (9) 778
Oppenheim, H., (39) 280, (27) 1533
Oppenheimer, A., (94) 179
Oppenheimer, C., (51) 862
Oppenheimer, S., (91) 371, (115) 697
Orbison, T. J., *1575
Oredson, O. A., (81) 796
O'Reilly, A., (99) 1194

O'Reilly, J. A., (10) 1611
Orendorff, O., *1316
Orenstein, A. J., 459
Oriandi, N., (109) 1460
Orieff, F. N., (120) 705
Ortali, O., (96) 1117
Orth, O., (89) 625
Orticoni, A., (54) 622, (29) 1618
Orton, S. T., (8) 937
Osawa, G., (119) 1039
Osborn, F. A., (130) 697
Osborne, T. B., (44, 45) 1358, (17, 31) 2096
O'Shea, J. H., (129) 1944
Osler, W., 216, 265, 679, (2) 860, 1135, (33) 1191, 1512, (25) 1945, 2001, 2067
Von Der Osten, A. L., (62) 2099
Osterhout, W. J. V., (48, 52) 467
Oswald, A., (56) 2024
Otis, E. O., (55) 1452, (26) 1527
Otten, L., (114) 697
Ottenberg, R., 613, (53) 1358, 2163
Oughterson, W. A., (145) 1362
Ousley, J. W., (71) 1452
Outland, J. H., *1060
Overend, W., (12) 183, (11) 1454
Owen, H. R., (26) 1450
Owen, W. B., (86) 777, (116) 858, (68) 1452
Ower, J. J., (86) 84, (30) 177
Ozaki, Y., (66) 91

P

Paak-Tong Lau, (53) 1685
Pabst, C. F., (92) 179, (60) 1528
Packard, E. N., Jr., (98) 179
Packard, G. B., (7) 1611
Packer, J. E., *2123
Page, B. W., (72) 541, (34) 694, (128) 778
Page, C. M., (29) 1363, (7) 2022
Page, H. M., (34) 2022
Page, W. C., (59) 618
Paget, J., 114
Paget, O., (103) 696
Palacios, G. D., (23) 938
Palamountain, W. B., *1986
Palier, E., (99) 543
Palmegiani, E., (112) 626
Palmer, C. L., (110) 1274
Palmer, E. E., *1566
Palmer, G. T., (35) 774, (75) 1108, *1312
Palmer, J. G., (116) 543
Palmer, W. W., (7) 271, (48) 939, (12, 13) 2096
Paltauf, R., (109) 1039, (77) 1537
Pancoast, H. K., (24) 1030
Pando, P. J., (149) 1694
Panner, H. J., (104) 1118
Pantzer, H. O., (11) 176
Pape, H., (76) 1536
Pardee, H. E. B., *2057
Parfitt, C. D., (48) 1614, (46) 1941
Pari, P. A., (7) 476
Pariset, (35) 1618
Parisot, J., (22) 1455
Park, F. E., (79) 1032
Parker, E. F., (115) 778
Parker, E. H., (55) 1528
Parker, F. L., (139) 276
Parker, H. N., (69) 775
Parker, W. S., (47) 695
Parkes, W. R., (35) 1527
Parkinson, J. P., (3) 1944
Parmenter, F. J., (90) 1616
Parodi, S. E., (113, 118) 1367
Parrish, H., (134) 1879
Parsons, J. H., (12) 1530
Parsons-Smith, B., (36) 1687
Partos, E., (54) 1278
Pascale, C., (106) 1460, (135) 2029
Pascalis, J., (42) 862
Pashayan, N. A., (1) 1028
Pasley, C. B., (12) 2169
Passmore, B. H., (138) 1275
Patel, M., (46) 2024
Paterson, R. G., (80) 1108, (35, 44) 2019
Paton, D. N., (32) 546, (11) 860
Paton, L., (1) 1944
Paton, S., (56) 1876
Patrick, A., (11) 1617
Patrick, H. T., 72, 691
Pattee, J. J., (105) 1360
Patterson, E. W. E., (70) 469
Patterson, T. L., (23) 1794, 1871
Patton, J. M., (79) 1615
Patton, W. S., (20, 24) 621
Patton, W. T., (61) 541
Pauchet, V., (26) 88
Paul, G., (73) 91
Paunz, M., (71) 91
Paus, N., (81) 375
Payne, W. C., (28) 1684
Payr, E., (26, 32, 38) 279, (43) 781, (111) 949
Peabody, F. W., 1938
Peacock, W. F., (25) 1358
Peak, J. H., (54, 60) 371
Pearce, L., (42) 1527
Pearce, R. G., (25, 28) 368
Pearce, R. M., 2163, (10) 2168
Pearl, R., (18) 2096
Pearse, H. E., (105) 179, 2161
Pearson, W. W., (56) 178
Pease, M. C., 2167
Peck, C. H., (21) 1450
Peck, E. L., 1102
Pecker, R., (52) 1036
Peckham, F. E., *308
Pedersen, V. C., (105) 1109, (90) 1529, (132) 1797
Peed, G. P., (103) 1109, (73) 1529
Peek, L. A., (60) 618
Peery, T. E., (133) 860
Peet, M. M., (9) 1189
Pegler, L. H., (24) 1196
Pehu, M., (34) 1364, (23) 1617
Pelper, A., (62) 1948
Peiser, A., (71) 623, (88) 2026
Peiser, H., (60) 1113, (43) 1456
Pel, P. K., (35) 1533
Pellecchia, E., (124) 866
Pellegrini, A., (61) 1882
Pellissier, J., (43) 1277
Pellizzari, C., (95) 1538
Pels, I. R., (55) 274
Pemberton, H. S., (39) 1945
Penecke, R., (57) 1832
Pennington, J. R., *1136
Pennock, W. J., (121) 1194
Pensuti, V., (117) 1201
Pentagna, O., (41) 952
Pepere, A., (124) 378
Peple, W. L., (79) 2099
Pepper, O. H. P., 2163
Perez-Grande, (134) 551
Perier, E., (41) 624
Perkins, C. E., (31) 1273, (129) 1879
Perkins, R. G., (59) 83, (26) 368
Perlmann, A., (10) 1691
Permin, G. S., (118) 1952
Perry, E. L., (19) 621
Perry, P. C., (122) 543
Pershing, H. T., (65) 1032
Perthes, G., (63) 186, (80) 375, (75) 1115, (111) 1691, (67) 1801
Perugia, A., (104) 1367
Péry, L., (32) 1799
Peschardi, C., (127) 1268
Peter, K., (104) 551
Peter, L. C., (28) 1273
Peterhanwahr, L., (69) 946
Peteri, I., (28) 473
Peterkin, G. S., (58) 468, (120) 1194
Petermann, J., (84) 1037
Peters, E. A., (13) 2169
Peters, L., (117) 778
Peters, L. S., (68) 541
Petersen, A., (28) 89
Petersen, H., (47) 700
Petersen, W., (46) 939, (63) 1108
Peterson, E. W., (99) 696
Peterson, G. R., (20) 2100
Peterson, R., (130) 1110
Petren, G., (54) 1036, (22) 1450
Petri, T., (103) 1691, (96) 2027
Petridis, P., (117) 1460
Petroff, S. A., (33) 369
Petruschky, J., (95) 1038
Petry, A., (48) 280
Pettenkofer, W., (57) 548
Pettey, G. E., (117) 276, (117) 942, (113) 1360
Pettit, J. A., (163) 180
Petty, O. H., (80) 542
Peyer, W., (60) 2103
Peyré, (21) 1532
Pezzana, L., (48) 475, (105) 1538
Pezzi, C., (22) 780
Pezzolo, M., (107) 1460
Pfaff, O. G., (53) 695
Pfahler, G. E., (159) 180, *1477, (18) 1612
Pfaltzer, B., (99) 1201
Pfeiffer, D. B., (24) 1450
Pfeiffer, J. A. F., (9) 937, (67) 1032
Pfeiler, W., (84) 1623
Pfingst, A. O., (88) 1943
Pfister, E., (110) 1201
Pfister, F., (124) 1453
Pflaumer, E., (107) 2027
Phillip, (26) 1617
Phemister, D. B., *211, (76) 858, *1834
Philibert, A., (147) 2029
Philipowicz, A., (65) 946
Philippsthal, A., (66) 1278
Phillips, C. E., (147) 180
Phillips, H. J., (86) 1193
Phillips, J., (16) 938, (48) 1107
Phillips, L., (24) 372
Phillips, M. H., (19, 20, 23) 1798
Phillips, W. C., (59) 541
Phillips, W. D., (123) 1879
Philpott, J. A., (64) 941
Piedallu, A., (43) 944
Pierce, C. H., (54) 1538
Pierce, N. H., (56) 1795
Pignatti, A., (115) 1201
Pike, F. H., (35) 272, (5) 538, *561
Pilcher, J. D., (35) 540
Pilcher, P. M., (56) 857
Pillsbury, C. M., (73) 1685
Pim, A. A., (20) 88
Pinard, A., (42, 46) 1197
Pinch, A. E. H., (6) 1195
Pincussohn, L., (73) 863
Pinkus, F., (69) 1366, (39) 1795
Piorkowski, M., (87) 1280
Pirie, G. R., (31) 1363
Pirrung, J. E., (89) 1796
Pisani, A., (100) 285
Pisek, G. R., 2167
Pitfield, R. L., (80) 542, (105) 1878
Pitt, R., 60
Pitzman, M., *1313
Plahl, F., (101) 1691
Plange, W., (85) 1623
Plass, E. D., (7) 1526
Platt, H., (11) 1945
Platt, W. B., (34) 1191
Platts, S. G., (40) 621
Plecker, W. A., (116) 276
Plehn, A., (42) 280
Plesch, J., (77) 549
Pleyte, A. A., (59) 274
Pohl, J., (18) 472
Polak, J. O., (57) 857, (1) 1874, 2015
Polak, O., (61) 186
Polimanti, O., (67) 1279
Poll, H., (104) 376
Pollak, B. A., (120) 1797
Pollard, S., 1523
Pollitzer, R. M., (144) 276
Pollock, H. L., (60) 1795
Pollock, L. J., *395, *1903
Pollock, W. B. L., (16) 183
Pommay, M., (30) 184
Pomorski, J., (68, 69) 623
Pont, A., (55) 945
Pontano, T., (110) 866, (67) 1883, (101) 1951, (83) 2106
Ponticaccia, M., (65) 1883
Pontoppidan, B., (141) 868
Pope, C., (84) 179, (52) 541
Popoff, N. M., (144) 552
Poppelreuter, W., (64) 1801
Popper, E., (80) 1037
Porges, M., (32) 2171
Porges, O., (66) 702, (76) 1279
von der Porten, E., (71) 702
Porteous, C. A., (5) 937
Porter, A., (17) 372
Porter, E. L., (19) 693
Porter, H. F. J., (86) 542
Porter, J. L., (12) 1611
Porter, J. Y., (61) 1273
Porter, L., (22) 1191, (5) 1272, 2165
Porter, M. F., (117) 469, (64) 1273
Porter, M. F., Jr., (57) 695
Porter, O. J., (136) 544
Porter, W. T., (5) 1189
de Portocarrero, E. C., (89) 1803
Posadas, J. N., (110) 1460, (148) 1694
Posey, W. C., (117) 1033, (118) 1275, (100) 1453, *1549
Posner, C., (53) 862, (71) 946, (50) 1278
Possek, R., (54) 1882
Post, A., (26) 1527
Post, J. O., (82) 542
Pottenger, F. M., (95) 275, (15) 472, (31) 857, *1291
Potter, A., (42) 1685
Potter, A. C., (20) 938
Potter, I. W., (21) 1272
Potter, P., *1578
Potts, C. S., (84) 776
Potts, W. A., (9) 943
Pougnet, J., (28) 699
Pouliquen, E., (37) 1800
Powell, A., (30) 774
Powell, C., *1239, (22) 1358, (24) 1684
Power, D., (9) 698
Powers, H. W., (110) 1685
Powers, J. C., (56) 1942
Powick, W. C., (72) 941
Poynton, F. J., (31) 1363
Pozzi, C., (145) 2029
Pozzi, S., (48) 945, (27) 1112, (52) 1198
Pozzo, A., (102) 1623
Praz, A., (95) 1803
Pranter, V., (79) 1537
Prasek, E., (112) 551
Pratt, E. C., (38) 178, (170) 182
Pratt, J. A., (100) 1529
Preble, W. E., (31) 1941
Prenn, J., (44) 616
Prentiss, E. C., (139) 86, (106) 1360
Pressly, J. E., (100) 371
Preston, R. S., (91) 1685
Prestridge, B. G., (137) 1275
Preti, L., (60) 475, (73) 476, (75) 1884
Pribram, E., (129) 551, (52) 782, (55) 2103
Pribram, H., (56) 375, (62) 782
Price, G. E., 1791
Price, G. M., (87) 275, (56) 1685, 1893
Price, J. W., Jr., (59) 371
Price, N. G., (93) 542
Priestley, H., (13, 15) 372
Prime, F., Jr., 1525
Prince, A. L., (14) 1526, (46) 1527
Prince, E. M., *1571
Pringle, J. A., *2054
Pringsheim, J., (88) 1690
Pritchard, E., (31) 1687
Pritchard, J. S., (38) 857
Pritchett, H. S., *961, 1025, (80) 1360
Privat, J., (48) 1688
Prochownick, L., (90) 1367
Proctor, J. M., (119) 543
Proescher, F., (46) 82, (72) 857
Pronger, C. E., (21) 183
Proust, R., (24) 1456
v. Prowazek, S., (48) 781
Puckett, C., (86) 2020
Pulay, E., (85) 1116
Pupovac, D., (131) 951
Purgmire, L., (79) 858
Purslow, L. E., (34) 944
Pusey, W. A., *1961
Putman, O., 2160
Pybus, F. C., (2) 1111, (32) 2022, (3, 7) 2169
Pyles, R. H., (66) 695

Q

Quackenbos, J. D., (132) 1879
Quain, E. P., (37) 370
Quarelli, G., (81) 864
Quénu, E., (39) 861
de Quervain, F., (34) 2102
Quickel, T. C., (20) 778
Quigley, J. K., *1222
Quimby, A. J., (15) 82
Quimby, W. A., (40) 694
Quinn, C. A., (10) 1451
Quinby, W. C., (47) 939
Quincke, H., (72) 91
Quintner, S. S., (62) 83
Quix, F. H., (129) 1039

R

Rabe, F., (49) 1535
Rabens, I. A., 855
Rabinovitz, M., (8) 1874
Rabinowitsch, L., (41) 90
Race, J., (133) 276, (116) 469
Rach, E., (34) 90, (74) 187
Rachmilewitsch, E., (53) 1113
Ragle, B. H., (4) 773
Ragsdale, A. C., (51) 1795
Rahe, A. H., (58) 1358
Rahe, I. M., (10) 686, (1) 2167
Railliet, G., (28) 781
Rainey, J. J., (2) 1028
Raison, T. W., (141) 620, (100) 1943
Raizies, R. W., 936
Raiziss, G. W., (46, 47) 467, (71) 618, (59) 775, (76) 941
Rajchman, L., (10) 2169
Raju, V. G., (21) 1363
Rall, (85) 1623
Ramond, F., (30) 1112, (34) 1618
Ramsay, A. M., (21) 2022
Ramstad, N. O., (38) 541
Rand, P. K., (53) 2097
Randall, A., *848
Randall, H. E., 1931
Randolph, B. M., *579
Randolph, J. H., (71) 941
Randolph, R. L., (113) 469
Rang, A., 2007
Rankin, E. G., (88) 179
Rankin, W. S., (124) 778
Rannenberg, A., (107) 1691
Ransohoff, J., (59) 2019
Ransohoff, J. L., (72) 1360
Ranzi, E., (105) 1039
Rapeer, L. W., 1442
Rappaport, B., *1985
Rashb, I. E., (122) 705
Ratnoff, N., (91) 1616
Rauch, R., (20) 472, (33) 2171
Rautmann, H., (83) 1622
Ravaut, P., (41) 546, (38) 1618, (53) 1688
Ravenna, E., (126) 867
Ravine, W. W., (85) 941, (68) 1615
Ravitch, M. L., (90) 777, *1228, (31) 2018
Ravogli, A., (75) 371, (41) 1684
Raw, N., (15) 1531
Rawls, S. P., (85) 2020
Ray, J. M., (62) 371
Raynor, F. C., (64) 2019
Rea, B. F., (100) 469
Read, A. J., (96) 1796
Reber, K., (50) 374
Reber, W., (119) 276, (109) 469, (96) 858, (112) 942, (64) 2099
Recaseus, S., (91) 1200
Reckzeh, P., (83) 549, (122) 551
Recupero, G., (108) 866
Red, S. C., (136) 942

Reddan, M. W., (107) **778**
Reddick, J. T., (76) 1796
Reder, F., (82) 179, **464,** (121) 858
Redlich, E., (71) **1949**
Reed, A. C., (94) 275, (14) 466, (113) 1194, ***1383, 1676**
Reed, C. A. L., ***1047,** (70) 1360
Reed, E. T., (129) 1530
Reed, H. S., (22) 2096
Reed, O., (49) 1685
Reed, W. M., (109) 1943
Reed-Mendenhall, D., **79**
Reenstierna, J., (89) **784**
Reese, L. O., (77) 1529
Reeves, E. A., (47) 371
Reeves, L. H., (152) 698
Register, E. C., (66) 1528
Rehder, H., (68) **702**
Rehfuss, M. E., ***569, *1737**
Rehn, L., (35) 1456
Reibmayr, H., (53) 2103
Reich, (38) 1456
Reiche, F., (112) 93, (36) **184,** (81) **1280,** (124) 2028
Reiche, P., (87) 864
Reichenow, E., (66) **375**
Reid, E. C., (111) 1796
Reid, M., (40, 41) 1364
Reid, M. R., (48) **616**
Reid, R. M., (95) 1685
Reid, W. D., (45) 1795
Reilly, F. St. C., ***242**
Reingruber, F., (92) **1458**
Reinhold, P., (19) **1532**
Reinike, E., (49) **184**
Reisz, A., (90) 1690
Reiter, H., (79) 2025
Remond, (21) 1455
Renault, J., (25) **781**
Rendu, A., (52) 945
Reno, W. W., (61) **1109**
Repaci, G., (66) 1883
Rettger, L. F., (51) 1358, **(49) 1527**
Reuben, M. S., (29) 82
Reverdin, A., (23) **278**
Revis, C., (27) 1880
Reye, E., (95) **625**
Reynier, P., (43) **1688**
Reynolds, D. S., (86) 1943
Reynolds, E., **79,** (11) **1272**
Reynolds, H. S., ***1318**
Rheaf, L. J., (16) **1190**
Rhein, J. H. W., (3) 937, (104) 1032, (136) 1879
Rhein, M., (49) **475,** (107) 1691
Rhodes, C. A., (98) 1685
Rhodes, F. A., (7) 466
Rhodes, G. B., (92) 941
Ribbert, H., (42) **1535**
Ricaldoni, A., (116) **1460**
Ricen, L., (125) 1194
Rich, E. A., (77) 858
Rich, E. C., (127) **1194**
Rich, H. M., **360**
Richards, A., (4) **1189**
Richards, A. E., (71) 695
Richards, A. N., (31) **540**
Richards, D. T., (22) 88
Richards, E. T. F., (39) **694**
Richards, G. L., (8) **368**
Richardson, C. W., (120) 1453
Richardson, R., (142) **697,** (14) **1105**
Richardson, R. R., (43) 620
Riche, J. A., (2) **2094**
Richter, K., (48) 1535
Richter, P., (45) 280
Richter, P. F., (72) 1037
Rickslot, C., (57) 1876
Riddell, D. F., (6) 1111
Ridlon, J., ***219,** (9) **1611**
Ridpath, R. F., (111) 85
Rieck, A., (121) 93
Riedel, B., (46) 184, (76, 77) 375, (109) 551, (69) **863,** (84) **1537**
Rieder, H., (92) 1280
Riedinger, F., (88) **1949**
Riedl, H., (105) 704, (97) **865**
Riehl, G., (80) **703,** (82) 1537
Riehl, M., (70) **186**
Rieley, L. A., (136) 180
Riese, H., (88) 625
Riesman, D., (128) 276, ***649,** (14) 1272, (110) **1360**
Riess, L., (21) 472
Riggs, H. W., (131) **1944**
Rigot, (56) 1198
Riha, W. W., (115) **180**
Riley, A., (42) 1795
Riley, J. W., (105) 469
Rimann, H., (74) 1199
Ringer, A. I., (46, 47) **467**
Rings, (53) **1882**
Riser, (25) 183
Risley, S. H., (21) **540,** (12) 856, (39) **1614**
Risley, S. D., (133) 276, ***1310,** (144) **1944**
Rissmann, P., (56) **1801**
Ritchie, J., (20) 2022
Ritschl, A., (72) **863,** (83) **1037,** (100) **1038**
Ritter, (88) 284
Ritter, C., (86) **864,** (75) **947**
Rittershaus, (55, 56) 1036
Rivas, D., (14) 177
Riviere, C., (18) **88**
Roach, J., (25) 177
Robb, J. M., (74) **469**
Robbins, G. E., (124) **619**
Roberts, D., (63) 857
Roberts, J. B., **1791**
Roberts, J. G., **1442**
Roberts, S. R., (50) 1031, (26) 1358
Roberts, W. O., (61) 371
Robertson, A. H., (25) 774
Robertson, A. W., (39) 1196
Robertson, G., (14) 2100
Robertson, J. H., (12) **2100**
Robertson, L. B., (56) 617, (50) **1614**
Robertson, M. E., (15) **183,** (22) 699, (22) 2022
Robertson, T. B., (67) **1108,** (13, 16) 1526
Robertson, W. E., ***199**
Robertson-Ross, J. M., (10) **1111**
Robey, W. H., Jr., (17) 774
Robin, A., (43) 622, (23) 699, ***1580**
Robins, C. R., **465,** (110) 1109
Robinson, C. M., (72) 1032
Robinson, D. E., (40) 2019
Robinson, G. C., (7) **2016**
Robinson, G. H., (41) **2096**
Robinson, G. W., ***814,** (106) 942, (100) 1194
Robinson, H. V., (5) 937
Robinson, J. E., (120) 543, (136) 2021
Robinson, J. M., (76) 618
Robinson, W., (14) 1195
Robinson, W. J., (116) 85, (120) 180, (67) 1528
Robinson, W. M. S., (45) 1035
Roblee, W. W., ***796**
Roccella, A., (77) **1802**
Rochet, V., (50) **945**
Rockwell, A. D., (126) **85**
Rodella, A., (51) **547**
Rodger, C. R., (19) 1196, (23) 1687
Rodman, H. D., (67) 371
Rodman, J. S., (115) 1033
Rodman, W. L., (119) **469, *707, *2107**
Roe, A. L., (9) 620
Roehr, C. G., (62) 618
Roemheld, L., (117) 2027
Roerdansz, W., (60) 91
Roger, H., (35) 1881
Rogers, E. J. A., (18) 1357
Rogers, F. D., (146) 276
Rogers, F. T., (20) **693**
Rogers, G. A., (131) 1194
Rogers, J., (113) **619,** (15) **693,** (1) **2167**
Rogers, L., (20) **372,** (14) 861, (24) 2022
Rogers, M. H., (4) **1611**
Rogers, O. F., Jr., (45) **695**
Rohdenburg, G. L., (4) **176,** (79) **696, *1227**
Rohmer, P., (77) **284**
Rohn, A., (93) **1690**
Rolleston, H. D., (12) 1111
Rolleston, J. D., (12) 1111
Rollier, A., (62) **701**
Roman, B., (49) 1113
Romano, G., (117) 866
Romeo, P., (64) 468
Rominger, E., (110) **93**
Roncali, D. B., (92) 188, (143) **2029**
Ronne, H., (105) **1804**
Röper, (72) 1115
Rosanoff, A. J., (30) 857
Rosenau, M. J., ***794**
Rosenberg, S. G., (40) **1534**
Rosenbloom, J., (31) **272,** (96) 275, (102) 469, ***508,** (73) **618,** (42) **939,** (75) 941, (9) 1793, (137) **1879**
Rosenfeld, G., (92) **376,** (47) **547,** (30) 2171
Rosenfeld, S., (106) 93, (60) 1689
Rosenow, E. C., (169) 182, (54) **468,** (60) **1358,** (119) 1361, **1524, *1668,** (34) **2096**
Rosenow, G., (62) 1948
Rosensohn, M., (111) 1032
Rosenthal, F., (56) 862, (63) **2104**
Rosenthal, H., (92) 1877
Rosenthal, M., (48) **547**
Rosenthal, S. H., **80**
Rosenthal, W., (74) 1536
Roseo, G., (64) 475
Rosewater, N., (95) 696
Ross, A., (13) 1454
Ross, E., (108) 1194
Ross, E. L., (26) **272,** (77) **1360, *1494,** (11) 2017
Ross, G., (55) **1030,** (2) **1449**
Ross, G. W., (52) **1614**
Ross, J. N. M., (4) **277**
Ross, R., **790, 1349,** (7) **1453, 1488**
Rost, W. L., (32) **82**
Rostenberg, A., (96) **942**
Rostock, P., (86) 1457
Rosznowski, (123) 1692
Roth, P., (37) 1358
Roth, P. B., (33) **1363**
Rothfuchs, R., (92) **92**
Rothmann, M., (57) **700,** (66) **1689**
Rothschild, M. F., (88) **549**
Rotter, J., (45) **474,** (85) **625,** (102) 949
Rous, P., (45) **1876, *1980, 2163**
Roussel, (42) 622
Roussy, G., (54) 1688, (53) 2024
Rouyer, E. (45) **1277**
Rovsing, T., (124) **706,** (121) **1460**
Rowan, W. H., (132) 778
Rowland, J. M. H., (81) 2099
Rowland, S., (8) 544, (12-18) 1033, (2) **1530**
Rowland, V. C., (16) **1682**
Rowley, W. N., (3) **2167**
Rowntree, L. G., ***1230,** (24) **1612, 2162**
Roy, D., (107) 371, (64) **618**
Royster, H. A., (105) 1685
v. Roznowski, J., (100) 92
Rubin, G., ***2062**
Rubin, I. C., (127) 1361
Rubinow, I. M., ***381**
Rubner, M., (60) 1278 (77) 2025, (35) 2102
Rubow, (116) 286
Rübsamen, O., (66) 623
von Ruck, K., **609**
von Ruck, S. H., (84) **618**
Rucker, M. P., (89) 1685
Rude, A. E., (33) 1613
Rueck, G. A., (100) 942, (98) 1798
Ruediger, E. H., (105) **1529**
Ruediger, G. F., ***1220**
Ruge, R., (51) 1358
Ruge, O. G., (128) 620
Ruh, H. O., **2165**
Ruhräh, J., (52) 83, (3) **1793**
Rummage, L. C., (146) **86**
Rummell, A., (77) **1802**
Rummo, G., (114) 866, (105) 1367
Rumpel, T., (66) **1115**
Rumpf, E., (42) **1112**
Rumpf, T., (101) 949, (63) 1365
Runyan, J. P., (44) 1273
Runyan, R. W., (125) **469**
Rupp, A., (99) 948
Rupp, O., (84) 703, (82) **864**
Rupp, W., (3) **1863**
Rupprecht, L., (97) 1038
Rusca, F., (40) 781
Russ, R., **(40)** 1192
Russ, S., (25) 1687
Russel, C. W., **2162**
Russell, F. F., ***2131**
Russel, R. H., (4) **778**
Rutelli, G., (113) **626**
Ruth, C. E., (52) 1528, (47) 1685
Rutherfurd, W. J., (13) 2022
Ruys, C. L. W., (124) **626**
Ryerson, E. W., ***24,** (8) 81, (49) 541
Ryfkogel, H. A. L., (32) **774**
Ryhiner, P., (42) 1800
Rystedt, G., (88) **784**
Rytina, A. G., ***45,** (21) **938**

S

von Saar, G., (37) 279
Sabatini, G., (113) 286, (113) **378**
Sabbatani, L., (3) **863**
Sabin, G. M., (171) 87
Sachs, B., (117) 1943
Sachs, E., **1936**
Sachs, H., (97) 950
Sachs, O., (130) 551
Sachs, T. B., **72,** (38) 774, (76) 1108
Sadler, W. S., (59) 1795
Sadlier, J. E., (12) **1029**
St. John, W., (132) 544
Sahli, H., (68) 1199
Sahud, M., (33) 774
Sailer, J., **81**
St. George, G., (11) **544**
St. John, W., (132) 544
Sainton, P., (18) **278,** (48) 622, (49) **1688**
Saito, S., (29) 1799
Sajous, C. E. deM., (15) 1112
Sakaguchi, K., (122) **1039,** (124) 1202
Sakai, S., (126) 1039, (125) **1202**
Salaghi, S., (107) 377
Salant, W., (16) **693,** (8) **1189**
Salen, E., (164) 627
Salin, H., (24) 1617
Salkowski, E., (34) 1533
Salmon, (122) 378
Salmon, J. M., (72) 179, (83) 2099
Salmon, T. W., (1) 1611
Salmond, R. W. A., (3) **1616**
Salomon, H., (104) 704
Salvatore, G., (122) **866**
Salvetti, G., (114) 626
Salzer, F., (98) 1280
Salzmann, F., (76) **1199**
Sams, L. Y., (64) 274
Sanchez, J. A., (145) 1694
Sanders, E. M., (156) 276
Sanders, T. E., (147) **1194**
Sandiford, L., (26) **1794**
Sandman, E. A., (17) **466**
Sanes, K. I., (9) **466**
Sansum, W. D., (9) **2095**
Sante, L. R., ***1573**
Santee, H. E., (37) 1451
Santesson, C. G., (79) **784**
Santos, C., (109) 1201
Santos-Fernandez, J., (87) **1803**
Saphir, J. F., (108) 619
Sappington, H. O., (133) 1275
Sappington, S. W., **2158**
v. Sarbo, A., (130) **951**
Sargent, P., (1) 1453
Sarkar, S. L., (8) **1797**
Sartory, A., (49) 945, (42) 1277, (50) **1688**
Satterthwaite, T. E., (113) 1943
Sattler, R., (66) 1452, (35) 1795
Sauer, F., (64) **2024**
Sauer, L. W., (17) 540, (36) **1613**
Sauer, W. E., (106) 1943
Sauter, R., (103) **2027**
Savage, G. C., (129) **544**
Savini, C., (15) 615, **(88)** 1360, (80) 1615
Sawasaki, H., (126) **1202**
Sawidowitsch, W., (78) **284**
Sawyer, W. A., (42) 1614, (45) 1941, ***2051**
Scales, F. M., (45) 467
Scalone, I., (115) **378,** (105) 1281
Scammon, R. E., (1) 1272
Scandola, C., (102) **865,** (136) **2029**
Scarlett, R. B., (121) 697
Sceleth, C. E., **928**
Schachner, A., (115) **1194**
Schaedel, (64) 2103
Schaefer, C. D., (53) 2019
Schaefer, H., (76) 1037
Schaefer, T. W., (19) 856
Schäffer, K., (76) **1884**
Schaler, A., **1901**
Schaller, W. F., (56) **2098**
Schamberg, J. F., (71) **618,** (59) 775, **936, 1102,** (11) **1105**
Schanz, A., (131) **2029**
Schapira, S. W., (107) 1796
Scharff, P., (43) 90
Schatz, H. A., (97) 275
Schauffler, W. G., (101) 179
Schaumann, H., (95) 1458
Schede, F., (119) 551, (100) 1280
Scheel, O., (118) **286**
Scheel, V., (106) **1804**
Scheele, K., (88) 1199
Schelenz, H., (78) 375
Schepelmann, E., (51) **1882,** (93) 2026
Scheyer, G., (84) 1623
Schier, A. R., (121) 1530
Schildecker, C. B., (9) **176**
Schill, A. M., (80) 1453
Schilling, F., (64) **1198**
Schinzinger, H., (17) **472**
Schintz, L., (11) **1624**
Schippers, J. C., (139) 552, (68) 2104
Schlapp, M. G., (94) **942**
Schlesinger, (49) 622
Schlesinger, E., (108) **1691,** (45) 2103
Schlesinger, H., (94) **1690**
Schlesinger, L., (89) 1949
Schlesinger, F., (7) 542
Schlimpert, H., (30) **89,** (39) 374
Schloessingk, K. E., (42) 774, (59) **1528**
Schloessmann, H., (47) 781, (36) 1456
Schlomovitz, B. H., (13) **1794,** (72) 1942
Schloss, E., (90, 91) **703**
Schloss, O. M., **2164, 2166**
Schmauss, L. F., (50) 178
Schmerz, H., (60) 1036
Schmey, M., (51) 1365
Schmidgall, G., (35) 781
Schmidt, A., (86) **376,** (71) **1279,** (96) **1459**
Schmidt, C. L. A., ***823**
Schmidt, H., (93) 376, (35) 1112
Schmidt, H. B., (80) 469
Schmidt, P., (70) 702, (53) **1456**
Schmidt, R., (48) **1882**
Schmiegelow, E., (11) 272, (122) **1368**
Schmincke, A., (94) **2027**
Schmitter, F., ***53**
Schmitz, H., (144) **1110,** (85) **1623**
Schmitz, K. E. F., (81) 1690
Schmitz, O. H., (12) 773
Schnabel, T. G., **81**
Schnée, A., (94) **92**
Schneider, E. C., (1) **855,** (2) **1189**
Schneider, F., (72) 1690
Schneider, H., (99) **703**
Schneiderhöhn, O., (71) **2104**
Schneidt, W., (70) **1457**
Schnitter, A., (69) 1199, (101) 1280
Schöbl, O., (106) 1529
Schochor, N. I., (149) 552
Schoenberg, M. J., (37) 1795
Schoene, G., (55) 1619
Scholl, J. B., (83) 1943
Schoonmaker, H., (85) **1274**

Schoonmaker, P., (105) 1274
Schorer, E. H., (5) **367**
Schott, M., (35) 1107
Schottellius, A., (95) **376**
Schottellius, E., (60) **1456**
Schoute, D., (126) 626
Schoute, G. J., (130) **626**
Schreiber, J., (59) 1198
Schreiner, B. F., (90) 1616
Schröder, H., (29) **474**, (118) **1691**
Schröder, R., (23)1532
Schroeder, L. C., (5) **1682**, **2166**
Schroeder, W. E., ***2132**
Schrumpf, P., (93) 1623
Schrup, J. H., (94) 1529
Schüle, A., (53) **281**
Schule, P. A., (11) 538
Schüler, W., (81) **284**
Schulte, J. E., (75) 476
Schulte-Tigges, (39) 700
Schultz, (117) 1691
Schultz, O. T., ***1901**, (51) **2097**
Schultz, W., (90) 376, (104) 949
Schultze, E., (73) 702, (71) 2025
Schultze, F., (98) **865**
Schum, H., (102) 1038
Schumacher, J., (47) **1113**, (73) 1199, (57) 1456, (84) **2025**
Schumann, E. A., (1) 466
Schüppel, A., (27) **89**
Schürmann, W., (64) **375**
Schut, H., (137) **867**, (111) **1281**
Schütz, J., (116) **948**, (106) 2027
Schwalbe, J., (100) **948**, (50) 1535, (80) 1690
Schwarz, E.,(42)**1364**
Schwarz, G., (132) 951
Schwarzenbach, E., (44) 374
Schwarzmann, J. S., (81) 187, (147) **552**
Schwatt, M. A., (40) 370
de Schweinitz, G. E., (99) 1529
Schweitzer, A. E., (56) 1031
Schwenke, J., (88) 1690
Schwering, J. F. W., (54) **185**
Schwetz, J., (9) 372, (4) 1362
Schwinn, J., (148) 1879
Schwyzer, A., (43) 374, (135) **1361**
Scinicariello, U., (140) 2029
Scott, A. C., (138) 942
Scott, A. J., Jr., (42) **1941**
Scott, L. B., (11) **1797**
Scott, O. F.,(43) 1451
Scott, R. L., (24) 1880
Scott, Z. R., ***1306**
Scudder, C. L., (48) **695**
Sebardt, C., (139) 626
Secher, K., (77) **784**, (92) **1803**, (31) 2101, (40) **2171**
Secor, W. L., ***1566**
Secord, E. R., (83) 1615
Seedorff, M., (117) 1952
Seefisch, G., (65) 1278
Seeley, W. F., (116) 1878
Seelig, A., (80) **1037**
Seelig, M. G., **1027**, (54) **1358**, **1610**
Seely, F. A., (79) 1453
Seelye, H. H., (124) 1797, (133) **1879**
Seemann, M., (125) 1692
Seff, I., (72) 2019
Segagni, S., (107) **285**
Segawa, M., (69) **2104**
Seibert, E. G., ***1649**
Seidelin, H., (12) 372, (29, **30**, **33**) 1034, (7) 1362
Seidl, C., (108) 1376
Seiffert, G., (49) 751
Seil, H. A., (129) 1797
Seitzinger, (70) **1457**
Selig, J., (95) 1038
Selig, R., (87) 1199
Seligmann, E., (89) 1623
Sellards, A. W., ***806**, (55) **940**
Sellenings, A. E., (137) 1797
Sellers, R. B., (130) 1275
Selliger, H., (107) 625
Selling, L., (104) 543
Sen, S. K., (16) 1363
Senear, F. E., (28) 2018
Senger, E., (62) 375
Senour, O. E., (89) 777
Sequeira, J. H., (1) 544, (5) **1195**
Serafini, G., (115) 626
Sergent, E., (52) **622**
Sergeois, E., (59) 2103
Setz, M., (127) 1692
Sever, J. W., ***1387**, (5) **1611**
Sevier, C. A., (115) 1616
Sewall, H., (63) 941
Sexsmith, G. H., (132) 1194
Sexton, L., (118) 1879, (116) 1943
Shambaugh, G. E., (74) 84, (17) 615
Shamoff, V. N., (29) 1794
Shanklin, E. M., (59) 695
Shapleigh, J. B., (105) 1943
Sharp, R. G., **1180**
Sharpe, N., (31) **1030**, (11) 1793
Sharpe, W., ***482**, (9) **1449**
Sharples, C. W., (113) 275
Shaw, C. W., (92) 777
Shaw, E. A., (16) 1686
Shaw, G. H., (18) 1450
Shaw, H. B., (13) **183**, (31) 1196
Shaw, H. L. K., (2) 81
Shaw, W. F., (162) 180, (21, 25) 1798
Shaw, W. S. J., (2) 87
Shearer, J. S., (37) 694
Shearer, T. W., (140) 1275
Sheddan, L. L., (140) 544
Sheehan, R., (118) 1530
Sheen, A. W., (26) 372, (7) 471
Sheffield, H. B., (40) 1107
Sheild, A. M., (8) 2169
Sheill, S., (42) 1946
Sheldon, J. G., (107) 942
Sheldon, W. D., (95) **1878**
Shelmire, J. B., (139) **2021**
Shenton, E. W. H., (8) 471
Sheppard, J. E., (16) 272, (36) 1273
Sherrick, C., (56) 774
Sherrick, J. L., (37) **1875**
Sherrick, J. W., (79) 469
Sherrill, J. G., (52) 371, **465**, (128) **1361**
Shields, R. T., (50) 1685
Shilliday, J. R., (132) 86
Shipley, A. E., (8, 11) 183, (28) 372, (10) 544, (10) 620, (10) 943, (6) 1033, (4) 1530, (13) 1945
Shippen, L. P., ***1289**
Shively, H. L., **2086**
Shoemaker, G. E., (125) **276**, ***1653**
Shore, F. E. V., (57) 1192
Shortle, A. G., (105) 696, (63) 1615
Shropshire, C. W., (125) 543
Shufflebotham, F., (14) 1686
Shuman, J. W., (62) 1942
Shurly, B. R., (109) 85
Shy, D. E., (112) 1943
Sicard, J. A., (50) 1197, (46) **1277**
Sidis, B., (89) 1529, (82) 1615
Siebeck, R., (58) 375
Siebmann, (62) **1619**
Siebert, F., (69) 1457
Sieur, (33) 861
Siewczynski, G., (87) 92
Silbergleit, H., (61) 863
Siler, J. F., (9) 538
Silvan, C., (107) **1281**
Silver, D., (139) 1879
Silvestri, T., (62) 475, (120) **626**, (101) 1367
Simmonds, M., (14) **472**
Simmons, C. C., (102) **858**
Simmons, G. H., (96) 1685
Simmons, J. W., (31) 1358
Simon, (86) 1199
Simon, C. E., ***822**, ***1630**
Simon, H., (61) 623
Simon, L., (109) **705**
Simon, L., (54) **1619**
Simon, R. M., (8) 943
Simon, W. V., (77) **187**, (58) 281, (60) 623
Simonds, J. P., (72, 73) 775, (66) 1273
Simonelli, F., (85 376
Simonin, P., (22) 1455
Simons, A., (116, 117) 93
Simons, I. H., (26) **1106**
Simpson, B. T., **1525**, ***1909**
Simpson, C. A., (116) 1453
Simpson, E. D., (91) 84
Simpson, F. E., ***1300**
Simpson, F. F., **2091**
Simpson, J. R., (117) 1275
Simpson, J. T., (10) 1033
Simpson, S., (9) **855**, (74) **941**
Simpson, W. J., (22) 183
Simpson, W. J. R., (15) 1617
Sinclair, J. F., (25) 1191
Sinding-Larsen, (35) **1624**
Singer, G., (66) **1115** (44) **2103**
Singer, H. D., (10) **538**, (77) **1360**, (7) **1939**, (11) 2017
Singer, J. J., **2007**
Singer, K., (51) **1278**
Singigaglia, G., (107) **1951**
Sippel, A., (107) 705
Sippy, B. W., ***1625**, **2090**
Sisson, W. R., (28) **272**
Sites, J. M., (155) 544
Sitsen, A. E., (141) 552
Sivori, L., (64) 1883, (73) **1884**
Skaller, M., (74) **1037**
Skeel, A., (13) **1029**
Skeel, R. E., (44) **857**
Skillern, P. G., Jr., (126) 180, (37) **1030**, (111) 1274
Skillern, R. H., (107) 85, (60) 2019
Skinner, E. H., (22) **466**
Skinner, M., (105) 2020
Slade, C. B., (98) 543, (22) 1029
Sladek, J., (55) 1882
Slemons, J. M., (35) 1192
Sloan, E. P., (31) 467
Sloan, M. F., (59) 1452
Sloan, M. G., (58) **1192**
Sluder, G., (27) 1273, (58) 1685
Slusher, W. C., (150, 151) 1195
Slye, M., (54) **1451**, **1525**, **1610**, **2157**
Smethers, A. L., (123) 1033
Smillie, W. G., (41) **939**
Smirnow, M. R., ***1579**
Smith, A. C., (81) 1685
Smith, A. E., (71) 1108
Smith, A. J., (14) 177, (111) **1194**
Smith, B. F., (126) 2021
Smith, B. F. Jr., (141) **2021**
Smith, C., (108) 1943
Smith, C. A., (39) 939
Smith, C. H., (74) 857, (119) **942**, (4) **1272**
Smith, D., (37) 616
Smith, D. G., (149) **544**
Smith, E. A., (132) 1033
Smith, E. H., (79) 1685, (44) 1941
Smith, E. O., (104) 85, (99) 1610
Smith, F. C., (66) 179, (98) 1032, ***1812**
Smith, F. D., (92) 1360, (100) **2020**
Smith, F. H., (91) 858, (124) **1361**, ***1734**
Smith, F. N., (76) **469**
Smith, G. G., ***223**
Smith, G. H., (66,67) 1358
Smith, G. M., (6) 698
Smith, G. T., (135) 620
Smith, H., (5) 87, (61, 63) 2019, (11) 2169
Smith, H. E., (2) **1033**
Smith, H. M., (38) 1358
Smith, H. P., (29) 1358
Smith, H. T., (12) 1683
Smith, J., (34) 857
Smith, J. L., (16) 943, (20) 1276
Smith, J. M., (28) 1358
Smith, J. T., Jr., (49) 1031
Smith, J. W., (71) 84
Smith, L. D., ***1563**
Smith, M., (104) 469
Smith, M. M., (122) 372
Smith, O. C., (16) 774
Smith, P., (101) 1453
Smith, R. E., (114) 372
Smith, R. J., (85) 1685
Smith, T., (40) 616, (85-88) **696**, **845**, **937**, **1075**, **1124**, **1845**
Smith, T. S., ***1587**
Smith, W. A., (126) 1275, (7) **1682**
Smith, W. D., (43) **616**
Smith, W. H., (5) **1449**, (74) 1529
Smithies, F., ***643**, (46) **774**, (15) **938**, (29) **942**, **1462**
de Smitt, B. S., (109) **1281**
Smitt, W. E., (81) 1457
Smoler, F., (32) 1456
Smyly, C. P., (20) 1687
Smyth, H. F., (87) **84**, (62) **775**
Snapper, J., (107) **1538**, (107) **1624**
Snell, M. W., (41) 178
Snijders, E. P., (127) **1039**
Snodgrass, W. A., (4) 2016
Snow, C., (129) 1194
Snowden, R. R., (1) **271**, (43) **939**
Snyder, C. D., (7) **1189**, (19) **1526**
Snyder, E. J., (6) **1449**
Snyder, J. W., ***1754**
Söderbergh, G., (138) **626**
Soderstrom, G. F., (2) **2094**
Solbrig, O., (86) 1690
Soldin, S., (42) 1456, (90) **1458**, (83) 1690
Soli, U., (90) 188
Sollmann, T., (33) **540**, (71) 1942
Solomon, H. C., (48) **82**, (28) **1191**, (1) 1683
Solomon, L. L., (85) 1943
Solomon, M., (43) 467, (86) **1274**, (68) 1942
Solomons, B., (25) 1034 (12) 1276
Sommer, G. N. J., (104) 778
Sonne, C., (60) 782
Sonnenschein, H. D., (127) **180**
Sonnenschein, R., (24) 272
Sorensen, S. P., (136) **1040**
Soresi, A. L., (122) **858**, (29) 1106
Sormani, B. P., (105) **1623**
Souchon, M., (90) 1796
Soule, R. H., (6) 1033
Souper, H. R., (21) **2100**
Sourdat, (26) **88**
Southard, E. E., (40) 82, (50) 83, (90) **94**, (58) 274, (41) 616, (80) **696**, (10) **937**
Souther, C. T., (99) 85
Southworth, T. S., **2093**
Souttar, H. S., (7) 544
Souttar, R., (22) **1527**
Spain, K. C., (59) 1108
Spanuth, (75) 91
Spät, W., (82) 1366
Spear, R., (142) 629
Speed, J. A., (25) 1191
Speed, J. S., (60) **1108**
Spelman, J. D., (101) 85
Spencer, H., **582**
Spencer, W. G., (12) **1945**
Spencer, W. H., (23) 2096
Sperry, J. A., (51) 1558
Spicer, C. P., ***1908**
Spicer, C. R., (7) 367
Spiegel, R., (32) **89**
Spielberg, W., (36) 857
Spielmeyer, M., (44) 781, (92) **864**, (76) **1457**
Spiess, G., (28) **1800**
Spiethoff, B., (83) **703**
Spiller, W. G., (83) 776, (9) 1105
Spillmann, L., (42) 1277, (50) **1688**
Spiro, K., (98) **2027**
Spitzig, B. L., ***733**, (48) **1031**, (69) 1876
Spitzy, H., (71) 1115
Spivak, C. D., (30) **1612**
Spivak, L. J., (162) 87
Spratling, W. P., (30) 1684
Spreier, C., (3) 1182
Springer, (83) **1457**
Sprôngerts, E., (88) **1458**
Squier, J. R., (68) **857**, **1790**
Stachow, K. F., (57) 91
Stadler, E., (82) 1037
Staehelin, (50) 1619
Staehelin, R., (58) **1112**
Staehlin, E., (27) 1106
Stahl, A. W., ***1317**, (27) **1684**
Stahl, B. F., **80**
Staley, R. W., (17) 856
Standish, M., (23) 82
Stanley, C., (74) 2099
Stanley, L. L., (41) 1192
Stanton, A. T., (37) **2022**
Stanton, F. M., (38) **1030**, ***1154**, (7) **1449**
Stanton, J. N., ***1985**
Stapler, M. M., (52) 274
Stapleton, W. J., Jr., (83) 1032
Stärcke-Polenaar, J., (134) 1039
Stargardt, K., (98) 625
Stark, H. H., (34) 82, (32) 616, (74) 1685
Stark, H. S., (91) 1360
Starke, J. N., (9) 1617
Starkey, F. R., (75) 542
Starkey, H. M., (149) **1944**
Starr, C. L., (53) **617**
Starr, M. S., (8) **618**
Statler, W. K., (111) 179, (102) 1194
Stauffer, W. H., (92) 2020
Stavridès, G., (94) **188**
Steadman, W. G., Jr., (139) 620
Stearns, J. W., (41) 82, (50) 83, (85) **776**, (27) 1527
Stearns, T., (24) 2096
Steel, W. A., (113) 1274
Steenma, F. H., (39) **1367**
Stefani, S., (142) 1693
de Stefano, S., (142) 952
Stegemann, A., (69) **91**
Steiger, M., (115) 1201, (57) 1278, (63) 1619
Stein, A. E., (66) 1801, (67) 1948
Stein, B., (81) **1366**
Stein, I. F., (6) **2168**
Stein, S., (73) 1685
Steinberg, S. A., (31) 2018
Steindl, H., (68) 375
Steindler, A., (10) 81, ***216**
Steinebach, B., (87) **1117**
Steinebach, R., (88) **1620**
Steinegger, A., (62) 1036
Steiner, F., (126) 94
Steiner, H., (81) 2025
Steiner, S., (5) 1615
Steinhardt, E., (57) **1358**
Steinkamm, J., (48) 474
Steinmetz, C. G., Jr., **1271**
Steinschneider, F., (54) 782
Steinthal, K., (61) 1036, (103) **2027**, (72) 2105
Stengel, A., (2) **614**
Stephens, J. W. W., (18) 372, (5, 8) 1362
Stephenson, J. W., (82) **776**
Stephenson, S., (3) 1195
Stern, A., (41) 1107, (136) 1797
Stern, C., (75) **2025**
Stern, M., (53) 1528
Stern, S., (100) **696**, (23) **1030**
Stern, W. G., (129) 180, (8) 692, (31) 1451
Sternberg, C., (129) 1692
Sternberg, W., (99) **285**, (49) **547**, (104) 1281, (63) **1457**, (59) **1801**
Sterne, A. E., (48) 178, (56) 695
Stetten, D., (118) **1361**
Stetter, E., (45) 1800
Stettner, E., (68) 91
Stevens, E. F., (131) **86**
Stevens, H. C., ***1636**
Stevens, T. A., (84) **1360**
Stevens, T. G., (79) 618
Stevenson, H. N., (48) **616**
Stevenson, M. D., (41, 143) **1944**
Stevenson, W. C., (13) 1276, (12) 1362
Stewart, D. H., (12) 1526
Stewart, F. T., (17) **1940**
Stewart, G. D., **1781**
Stewart, J., (28) 177
Stewart, M. J., (28) **1034**
Stewart, P., (29) 372
Stewart, W. H., (21) **466**
Stheeman, H. A., (133) **1039**
Stiefler, G., (106) 1039
Stieren, E., (21) 82, (111) **469**
Stierlin, E., (65) 91, (85) 947
Stieve, H., (86) **1280**

Stiles, H. J., (5) 277
Stiles, P. G., (18) 1526
Stiller, B., (61) 1198
Stillians, A. W., *1964
Stimson, A. M., 610
Stimson, G. W., *430
Stiner, O., (39) 1112
Stingel, J. L., (71) 1942
Stirling, A. W., (66) 618
Stirrett, E. Z., (52) 1614
Stitt, E. R., (127) 1530
Stockard, C., (68) 618
Stocker, S., (64) 701
Stocks, A. L., (93) 1453
Stoddart, W. H. B., (28) 1363, (8) 1454, (9) 1530, (1) 1797, (18) 2022
Stoeckel, W., (103) 1460, (133) 2028
Stoffel, A., (70) 1115
Stokes, A., (16) 1617
Stokes, J. H., (56) 274, *979, (102) 1360, *1465, (5) 1793
Stokes, M. B., (160) 87
Stone, A. K., (42) 273
Stone, J. S., (8) 466, (110) 858
Stoner, W. C., (133) 180
Stoney, F. A., (2) 1616
Storer, M., (23) 467
Stott, H., (31) 621, (16) 861, (23) 1276, (7) 1797, (26) 2022
Stott, W., (8) 1362
Stotter, J., (70) 1876
Stout, P. S., (79) 1274
Strachan, J., (17) 1276
Strachstein, A., (64) 1528, (98) 1529
Strandberg, J., (135) 626, (88) 2106
Strandgaard, N. J., (34) 184
Strasser, A. A., (16) 1272
Stratton, R. T., (20) 368
Stratz, C. H., (101) 1201
Straub, H., (54) 90
Straub, W., (96) 703, (75) 1457
Straus, N., (28) 694
Strauss, A. A., (31) 1527
Strauss, H., (99) 92, (59) 963, (60) 1198, (56) 1688, (39) 1800
Strauss, I., (97) 696, 2013
Strauss, M., (88) 376
Strauss, H., (47) 2103
Strawn, J. T., (71) 1274
Strebel, J., (58) 91, (69) 1948
Strecker, E. A., *1151
Street, J. P., *638, (47) 857, (106) 1194
Streissler, E., (28) 279
Stretton, J. L., (4) 2169
Stricker, F., (89) 549
Strickland, C., (19) 1880
Strickler, A., *800, (62) 1192
Strietmann, W. H., (39) 1192
Strisower, R., (66) 702
Strong, L. W., (2) 466, (5) 1029, 2092
Strong, R. P., (44) 695, *806, *965, *1124, (24) 1875 (46) 1876
Stropeni, L., (70) 1883, (141) 2029
Strouse, C., (6) 2168
Strunsky, M., (94) 1109
Stuart, E., (15) 466
Stuart-Low, W., (12) 698, (32) 1687
Stubbs, H. J., (63) 84
Stuchlik, J., (84) 947
Stucky, J. A., (69) 179, (137) 778, (84) 1193
Studley, F. C., (130) 1033
Stühmer, A., (41) 474
Stümpke, G., (65) 375, (58) 1801, (48) 2103
Sturgis, J., (92) 1943
Sturgis, M. G., (20) 615
Stursberg, H., (73) 1536
Sturtevant, C. N., (125) 1943
Stürup, J., (110) 1538
Stutzin, (43) 280
Styan, W. E., 1017
Suchanek, E., (72) 186, (51) 782, (125) 1692
Sudeck, P., (51) 185, (38) 700
Sudler, M. T., (153) 180
Sugge, L. A., (137) 2021
Summers, J. E., (105) 1032
Sumner, F. W., (6) 87
Sundberg, C. G., (138) 380
Sundell, H., (154) 2030
Sundwall, J., (79) 1943
Suner, E., (25) 473
Surface, E. M., (18) 2096
Susini, L., (117) 1367
Suter, F., (132) 551
Sutherland, C. G., (116) 1530
Sutherland, H. L., 1395
Sutherland, W. D., (6) 1797
Sutton, M. B. E., (109) 1109
Sutton, R. L., *403, *1063, (16) 1105
Suzuki, M., (67) 783
Svindt, I., (133) 94, (143) 379, (77) 1884
Swaim, C. J., (81) 1529
Swan, J. M., (45) 939, (118) 1943
Swanberg, H., (93) 618
Swann, A. W., *737
Swart, S. P., (123) 626
Swearingen, M., (125) 2021
Sweatland, A. E., (111) 1616
Sweet, E. A., 1818
Sweet, J. E., (24, 26) 1106
Swellengrebel, N. H., (114) 697
Swetnam, C. R. K., (40) 1031
Swift, G. W., (126) 697
Swift, H. F., *1471
Swift, H. M., (20) 540, (97) 777
Swift, W. B., (6) 773
Swope, S. D., (37) 273, (104) 1360
Symington, J., (14) 943
Synnott, M. J., (108) 1032, (90) 1193, (37) 1613
Syring, (113) 2027
v. Szily, P., (84) 1115
Szuman, S., (36) 781

T

Taber, L. B., (38) 2096
v. Tabora, R. D., (106) 1691, (51) 2103
Tachau, H., (55) 782
Tachigara, I. S., (128) 1202
Taddel, D., (105) 1367
Taft, W. H., 1608
Takaki, Y., (33) 1881
Takasu, K., (70) 91
Takenouchi, M., (120) 1039
Talamon, (30) 184
Talbot, E. S., 928, (94) 1274
Talbot, J. W., (60) 274
Taliaferro, B. L., (92) 858
Tamm, F., (91) 284
Tanberg, A., (108) 1118
Tandberg, O., (117) 1282
Tansini, I., (107) 866
de Tarnowsky, G., *1495
Tate, M. A., (136) 1194, (11) 1526
Taubles, G. H., (32) 774
Taunton, E., (35) 2022
Taussig, F. J., 2092
Taylor, A. S., (82) 776
Taylor, C. B., (51) 1942
Taylor, E. J., (65) 1876
Taylor, E. W., (72) 1274
Taylor, F., (26) 1196
Taylor, G. F., (138) 697
Taylor, H. C., (80) 2019
Taylor, J. D., (62) 1032
Taylor, J. H., (37) 1684
Taylor, J. M., (143) 86, (42) 1107
Taylor, L., (25) 272, (3) 538
Taylor, S., (10) 88
Taylor, W., (96) 1360
Teacher, J. H., (19) 943
Tecon, (60) 946
Tedeschi, E., (120) 378, (66) 475
Teillais, (28) 1112
Teleky, D., (133) 551
Teller, E., (90) 284
Temoin, (47) 945
Tenani, O., (86) 188
TenBroeck, C., (86-88) 696
Ten Doesschate, G., (109) 1538
Ten Horn, C., (80) 549
Tennant, C. E., *1548
Tenney, B., (48) 1273
Terebinsky, V. I., (117) 705
Tergast, K., (86) 703
Terrill, J., (109) 372
Terry, B. T., (64-66) 1108
Terson, A., (16) 278
Terwen, A. J. L., (123) 626
Teske, H., (49) 1535?
Teter, C. K., (79) 179
Thaler, H., (95) 2027
Thamm, D., (110) 1952
Thayer, W. S., (1) 271, (105) 371, 1938
Thaysen, T. E. H., (63) 1198, (116) 1952
Thedering, F., (111) 551, (58) 1456
Theisen, C. F., (15) 272
Theunissen, W. F., (133) 867
Thévenot, L., (50) 945
Thibault, H., (36) 616
Thibault, J. K., Jr., (144) 1194
Thiberge, N. F., (113) 697
Thiele, F. H., (35) 1034
Thiemann, H., (102) 2027, (62) 2103
Thieme, L., (70) 1536
Thies, A., (80) 462
Thölle, F., (74) 1366
Thom, D. A., (19) 177
Thom, V., (53) 1278
Thomas, B. A., (44) 939
Thomas, D. J., (11) 1275, (9) 1362, (5) 1616, (5) 2022
Thomas, G. E., (90) 1274, (119) 1530
Thomas, G. J., *104
Thomas, H. B., (9) 81, *305
Thomas, J. B., (17) 466
Thomason, J. W., (134) 2021
Thomasson, W. J., (62) 2019
Thompson, E., (123) 1530
Thompson, G. S., (27) 372
Thompson, J. E., (129) 1275
Thompson, L., *1471
Thompson, M. K., (120) 1110
Thompson, S. E., (35) 616
Thompson, T. O., (15) 698
Thompson, W. B., (68) 695
Thompson, W. R., (117) 1616
Thomsen, O., (123) 1368, (115) 1952
Thomson, E. S., (121) 942
Thomson, H., (105) 625
Thomson, H. C., (37) 1196
Thomson, J. J., (17) 272
Thomson, W. F., 239
Thomson, W. H., (8) 614
Thomson, W. W. D., (12) 1454
Thomson-Walker, J. W., (41) 1946
Thorne, L. T., (39) 1687
Thornton, G. G., (73) 179, (82) 1796
v. Thun, H., (93) 1803
Thurber, W. D., (62) 274, (77) 1108
Thursfield, H., (4) 1111
Thurston, H. S., (55) 695
Thyng, D. K., (135) 1944
Tice, F., 1103
Tidy, H. L., (21) 699
Tiegel, M., (63) 946
Tietze, A., (52) 281, (64) 623, (102) 1281, (47) 1535
Tigert, H. M., (110) 371
Tileston, W., 2094
Tillery, J. P., (133) 544
Tilley, H., (22) 1687
Tillgren, J., (160) 627
Tilney, F., 1937
Timme, W., (57) 274, *321
Tinker, M. B., 1789
Tintner, F., (122) 2028
Tissot, J., (53) 1036
Titone, P., (91) 1802
Tizzoni, G., (150) 1694
Todd, A. H., (6) 1530
Todd, F. C., (122) 276, 854, (99) 1878
Todd, G. M., (34) 1030
Todd, J. L., (60) 178, (6) 372
Todd, T. W., (47) 1031, (66) 1876
Todyo, T., (68) 783
Toenniessen, E., (86) 864, (108) 1691
Tölken, R., (82) 1690
Tomasinelli, G., (106) 1951
Tompkins, J. M., (93) 1685
Tonkin, H. G., (178) 87
Tooke, F., (29) 939
Töpfer, H., (75) 702, (98) 948, (72) 1199, (83) 2025
Topley, W. W. C., (40) 621, (9) 860
Torbert, J. R., (32) 177
Torchiani, B., *15
Torek, F., (20) 1450
Torgersen, P., (167) 628
Torrance, L., (70) 1279
Torrance, G., (97) 543
Torres, M., (116) 1039
Torres, O., (117) 1039, (85) 1803
Torrey, J. C., (79) 775
Tousey, S., (83) 275, (27) 1030, (107) 1109, *1394, (133) 1797, (78) 2019
Touton, K., (49) 700, (58) 862, (29) 2101, (10) 2171
Tovey, D. W., (92) 1529
Towle, H. P., (78) 371
Townsend, D., (61) 940
Townsend, T. M., (131) 1879
Tracy, S. G., (148) 180, (116) 1033
Tracy, S. G., (99) 1274
Traeger, F., (66) 2104
Trask, J. W., 140, 238, 290, 398, 605, 696
Traube, J., (70) 1689
Travassos, L., (122) 626, (103) 1538, (84) 1803, (108) 1952
Traver, A. H., (5) 1357
Treadwell, C., (87) 1796
Trémolières, F., (20) 1532
Trendelenburg, W., (127) 551, (94) 1200
Treupel, G., (76) 1621
Trier, H., (123) 286
Trifonoff, G. P., (20) 278
Trillat, A., (24) 88, (48) 1197
Trinchese, J., (41) 2102
Troell, A., (158) 627, (70) 946
Trotter, W., (1) 2100
Trout, H. H., (96) 2020
Trout, J. M., (153) 276
Troutman, G. D., 1181
Trowbridge, E. H., *728
Trowbridge, P. F., (92) 1877
Trubina, S., (59) 281
Trucheart, M., (68) 274
Truesdale, P. E., (133) 86, (45) 1107
Truesdell, E. D., (56) 1273
Trumpp, (53) 475
Tschaika, A. A., (75) 375
Tubby, B., (164) 180, (5) 544, (1) 692, (5) 1879
Tucker, B. R., (111) 778
Tucker, E. F., (128) 1944
Tuechter, J. L., (47) 2019
Tuffier, T., (17) 278, (120) 469, (25) 2171
Tulasne, A., (51) 1947
Tumpowsky, I., *1822
Tunnicliff, R., (47) 2096
Tunnicliffe, F. W., (27) 861
Turck, R. C., (69) 941
Turley, L. A., (135) 180
Turnbull, H. M., (31) 1880
Turner, B. B., 2163
Turner, C. V., (3) 1685
Turner, D., (47) 1195
Turner, J. A., (5) 1686
Turner, J. R., *1980, 2163
Turner, J. S., (131) 1275
Turner, W. A., (4) 2022
Turner, W. G., (59) 940
Turrell, W. J., (17) 779
Turrettini, G., (57) 1947
Tuttle, A. H., (41) 1614
Tuttle, H. K., (91) 1943
Tweedy, E. H., (17) 1798
Twichell, D. C., (106) 696
Tydings, O., (60) 541, (135) 697
Tyler, G. T., (145) 276
Tymms, W. R., 1931
Tyson, H. H., (37) 1795
Tyson, J., (108) 1360, 2086
Tyzzer, E. E., *806, *965, *1124, 1525, 1610, (24) 1875, (48) 2097

U

Uhl, E. L., (71) 275
Uhlenhuth, P., (88) 1037, (64) 1365, (49) 1882
v. Ujj, S., (79) 1037
Ulesko-Stroganowa, K., (81) 91
Ullman, J. S., (104) 1616
Ulrich, H. L., 1628
Umber, F., (40) 1112, (56) 1113
Umbreit, A. C., (184) 87
Underhill, F. P., (51) 467, (34, 35) 1838
Unger, E., (27) 279, (31) 1533
Unger, L. J., *582
Unger, M., (120) 85, (65) 541
Unger, W., (117) 551
Unna, P. G., (47) 1365, (32) 1533, (65) 1689, (59, 60) 2024
Unterberger, F., (43) 1112
Unwin, H. R., (5) 1033
Upcott, H., (13) 2100
Upham, J. H., (100) 1616
Upshur, J. N., (148) 86
Usener, W., (90) 284

V

Vaglio, R., (111) 626, (98) 1367
Vail, D. T., (131) 180, (66) 468, (133) 697, (102) 1529, (145) 1797
Valentine, J. J., (131) 1879
Valk, F., (153) 1944
Valladares, P., (128) 379
Vallée, (36) 1277
Valude, E., (7) 1277
Van Assen, J., (133) 379
Vance, A. M., (98) 85
Vance, J., (135) 86
Van de Velde, T. H., (120) 1460, (103) 1683, (73) 2105
Van den Broek, A. J. P., (74) 783
Van der Bent., T. J., (103) 1194
Van der Bergh, A. A. H., (132) 379, (134) 867, (118) 1460, (107) 1538, (107) 1624
Vander Bogert, F., (10) 773
Vanderhoof, D., (152) 87, (47) 1876
Vanderhoof, D. A., (24) 857
Van der Scheer, (78) 1876
Van der Scheer, W. M., (102) 188
VanDerslice, J. W., (47) 1795
Van der Torren, J., (104) 188
Vander Veer, A. A., *1227
Vandervoort, C. C., (82) 1795
Van Dijk, J. A., (114) 705
Van Dine, D. L., (143) 1194
Van Emden, A., (62) 946
Van Haeff, M. P. P., (139) 867
Van Hasselt, J. A., (131) 1039
Van Herwerden, M. A., (41) 184
Van Hoogenhuyze, C. J. C., (77) 476
Van Hook, W., (106) 2020
Van Houtum, G., (119) 1367
Van Ingen, P., 79
Van Leersum, E. C., (69) 783
Van Leeuwen, G. A., (132) 1039
Van Lier, E. H., (135) 379
Van Loghem, J. J., (112) 1952
Van Meter, L. M., (36) 178
Van Os, W. H., (129) 626
Van Renterghem, A. W., (54) 1108, (70) 1942
Van Rhee, G., (115) 1878
Van Rijnberk, G., (138) 552, (128) 626, (69, 72, 76) 783
Van Roojen, P. H., (148) 2029
Van Sickle, D. D., *126
Van Slyke, L. L., (78) 941
Van Sweringen, G., (52) 695
Van Tussenbroek, C., (137) 867
Van Valkenburg, C. T., (150) 2029
Van Vloten, H., (78) 702
Van Voorthuijsen, S., (115) 705
Van Wyck, K. L., (185) 87
Van Zandt, J. L., (135) 1275
Van Zant, B. T., (110) 1616

Van Zant, C. B., (34) 178
Van Zwaluwenburg, J. G., (78) 469, (101) 1360, (17) 1612, (114) 1878
Vaquez, H., (24) 780, (17) 1455
Varney, H. R., (97) 1360
Vasoin, B., (113) 1039, (93) 1367, (104) 1460
Vastarini-Cresi, G., (69) 1279
Vattuone, A., (110) 377, (72) 476, (91) 1537
Vaughan, G. T., (150) 544, (133) 620
Vaughan, V. C., 171, (78) 179, 392, (145) 620, *785, *1805
Vaught, C. H., (105) 1685
Veale, P. J., (2) 1195
Veasey, C. A., (27) 616
Vecchiati, W., (119) 626
Vedder, E. B., *972, (35) 2096
Veeder, B. S., (69) 1452
Veith, A., (113) 551, (61) 863
von den Velden, R., (88) 864
Velhagen, C. H., (68) 1457
Venable, C. S., (156) 698
Verbrycke, J. R., Jr., (147) 544
Vergely, A., (54) 1198
Verhoeff, F. H., (95) 858, 1264, (7) 1357, 1603, (34) 1795
Verney, L., (102) 1367
Verploegh, H., (95) 188, (124) 626
Versluys, J., (108) 705
Vertes, O., (79) 91
zur Verth, M., (97) 703, (80) 1199, (78) 1457
Vervloet, C. G., (149) 2029
Vidt, C. E., (81) 1943
Vierordt, H., (50) 2103
Vignard, E., (48) 863
Villaret, M., (26) 2171
Vincent, G. E., *790
Vincent, S., (35) 546, (50) 2097
Vineberg, H. N., 2014
Vinyard, G. T., (124) 372
Viol, C. H., (129) 1797
Vipond, A. E., (140) 276
Virgillo, F., (138) 2029
Vischer, A. L., (65) 91, (42) 1800
Viton, J. J., (152) 1694
Vitoux, G., (32) 184
Voelcker, F., (46) 1800
Vogt, E., (103) 1201
Voigt, J., (80) 1280, (78) 1366
Voigt, L., (72) 702
Voje, J. H., (134) 1033
Volk, R., (106) 1039
Volkmann, J., (82) 1199
Volland, (91) 1458
Vollmer, W., (57) 1365
Voorhees, I. W., *1069, (101) 1796
Vorhies, C. T., 1180
Vos, B. H., (137, 138) 867
Vos., L., (135) 867
de Vos Hugo, D., (3) 2022
Vost, W., (20) 861, (12) 1797
Voulléris, N. P., (121) 626
Vulliet, H., (57) 1198
Vulpius, O., (48) 1113

W

Waage, F. O., (91) 469
Waardenburg, P. J., (125) 626, (113) 1281
Waas, F. J., (62) 1273
Wachsner, F., (74) 549
Wachtel, H., (68) 186
Wada, T., (127) 1202
Wade, E. M., (20) 1029
Wade, H. W., *819, (63) 1358, (69) 1795
Wagner, A., (62) 91, (69) 375
Wahrer, W., (121) 1361
Wainwright, J. M., (124) 276, (120) 1275
Waite, F. C., 1028
Waite, W. W., (140) 86
Wakefield, W. F. B., (13) 1272
Wakeman, A. J., (17) 2096
Walcott, H. G., (127) 2021
Waldeck, G. M., (110) 1878
Waldenström, H., (98) 1803
Wales, E. deW., (14) 272
Walker, C. B., (6) 1357
Walker, E. L., (122) 1275, (107) 1529
Walker, E. W. A., (40) 944, (9) 1454
Walker, F. B., (41) 857
Walker, G., (24) 943
Walker, J. B., (101) 275, (117) 619
Walker, S., (144) 620, (130) 1530
Walker, W. K., (118) 1033
Walker, W. O., (28) 1276
Walkhoff, F. O., (79) 1457
Walko, K., (88) 1366, (62) 1535, (79) 1621
Wall, G. A., (94) 1453
Wall, R. T., (121) 1275
Wallace, C., (38) 2022
Wallace, C. H., 2160
Wallace, C. J., *739
Wallace, C. S., (39) 944, (32) 1363
Wallace, W. L., (126) 942
Wallart, J., (40) 374, (94) 376
Waller, C. E., (147) 627, (125) 1368
Waller, H. E., (21) 1112
Waller, J. J., (135) 544
Wallfield, J. M., (66) 857, (126) 1943
Walls, W. K., (25) 1798
Walsh, F. C., (90) 371
Walsh, W. H., (85) 542
Walsham, H., (11) 1454
Walshe, F. M. R., (4, 6) 942
Walter, C., (100) 1280
Walter, F. J., (46) 274
Walther, H. (49) 2103
Walton, H. J., (10) 2022
v. Walzel, P., (78) 1537
Warbasse, J. P., *1293
Ward, G. G., 2093
Ward, G. R., (2) 2169
Ward, H. B., (3) 1362, (55) 1615
Ward, J. B., (53) 274
Warden, C. C., (39) 2096
Wardner, D. M., (2) 937
Ware, M., (63) 1942
Ware, M. W., (97) 179
Warfield, L. M., (9) 271, *1296, (111) 1685
Warneford, F. H. S., (15) 2096
Warner, A. R., (109) 1194
Warren, E. L., (77) 1274
Warthin, A. S., (17) 1190
Washburn, E., (46) 1273
Washburne, C. L., (85) 1032
v. Wasielewski, T., (58) 2103
Wasteneys, H., (21) 2096
Watanabe, R., (122) 1039
Waterhouse, H. F., (8) 860
Waterman, R., (49) 857
Waters, B. H., (109) 1194
Waters, C. A., (122) 469, *1392
Wathen, J. R., (56) 371
Watkins, J. C., (89) 2020
Watkins, W. W., (13) 773, (35) 1875
Watson, A., (38) 1687
Watson, B. P., (47) 1192
Watson, C. G., (6) 778, (13) 1195
Watson, M., *582
Watson, C. W., (68) 179
Watson, E. J., (19) 1687
Watson, F. S., (51) 695, (15) 1683
Watson, J. F., (89) 858
Watson, W. P., (105) 778
Watson-Wemyss, H. L., (18) 1276
Watson-Williams, P., (42) 1035, (3) 1879
Watt, H. W., (79) 1796
Watterson, W. H., (37) 774
Watterston, C., (125) 543
Weatherly, L. A., (25) 1880
Weaver, G. H., (69) 1358
Webb, G. B., (33) 272
Weber, E., (72) 1949
Weber, F. P., (7) 1111
Weber, L. W., (88) 1623
Webster, J. C., 175, *812, (119) 858, (116) 2020
Wechselmann, W., (65) 1115
von Wedekind, L. L., (78) 542
von Wedel, C., (138) 180
Weed, L. H., (13) 693
Weeks, A., (5) 1272
Wegelin, C., (67) 2025
Wehmer, C., (80) 1115
Wehner, E., (5) 81
Wehrbein, H., (43) 2096
Weible, R. E., (80) 776
Weichardt, W., (108) 1691
Weichselbaum, A., (126) 1692
Weidenfeld, S., (85) 1116
Weidler, W. B., (52) 939
Weidner, C., Jr., (76) 1360
Weigeldt, W., (57) 1036
Weih, E. P., (67) 695
Weil, A., (53) 375
Weil, E., (20) 699, (82) 1366
Weil, R., *425, *1283, (52) 1451, 1611
Weil, S., (62) 623, (77) 947
Weiland, W., (80) 1949, (65) 2104
Weiler, K., (99) 1280
Weill, E., (24) 183
Weill-Halle, B., (32) 1618
Weinberg, K., (156) 1694
Weinberger, A. V., (153) 544
Weinstein, J., (88) 275, (63) 468, (99) 942
Weinstraud, W., (74) 702
Weis, J. D., (92) 1274
Weisenburg, T. H., *975
Weiser, R., (49) 90
Weiss, R., (96) 1038, (4) 1526
Weissgerber, F., (114) 1691
Weisskopf, A., (129) 1692
Weitz, B., (45) 1535
Weitz, W., (54) 375
Weizsäcker, V., (95) 1280
Welborn, J. Y., (105) 85
Welde, E. F., (111) 93
Welfeld, J., (54) 1795
Welker, W. H., (73) 1942
Weller, C. V., (22) 1612
Welles, E. S., (28) 1191, (16) 1683
Wells, C. W., (78) 775
Wells, H. G., 1525, (27) 1612, (13) 2017
Welsh, D. A., (15) 1798
Welton, C. B., (139) 697
Welton, T. S., (15) 1272
Welty, C. F., (44) 1192
Wenckebach, K. F., (69) 1115
Wender, L., (107) 1032
Wendt, (52) 1619
Wenning, T. H., (64) 1452
Wenyon, C. M., (30) 373, (30) 1276
Werber, E. I., (9) 2168
Werneck, C., (122) 1202
Werner, P., (97) 376
Wernstedt, W., (154) 627
Wersen, A., (156) 380
Werz, E., (74) 1536
Weski, O., (91) 1280
Wesselhoeft, W., (20) 2018
West, C. J., (79) 1876
West, R., (1) 2016
Westenhöfer, M., (52) 700
Westerhuis, P. B., (143) 552
Western, G. T., (38) 1946
Westmacott, F. H., (20) 943
Westmeyer, J., (81) 1037
Weston, P. G., (9) 1939
Westphal, A., (50) 1801
Wettstein, J. C. R., (44) 178
Wetzel, E., (107) 949
Weysse, A. W., (24) 1794
Whale, G. H. L., (33) 2022
Wheeler, B. S., (154) 544
Wheeler, H. L., *387
Wheeler, R., (6) 1272
Wheeler, W. I. deC., (13) 943
Whelchel, H. C., (30) 1358
Wherry, W. B., (52) 1358
Wherry, W. R., (41) 2019
Whipham, T. R., (1) 1111
Whitbeck, B. H., (11) 692
Whipple, G. C., 1392
Whipple, G. H., (60) 1108
Whitcher, B. R., (40) 273
White, F. W., 1939
White, P. G., (92) 1109
White, R. L., (14) 543
White, R. R., (139) 942
Whiteford, C. H., (29) 1196
Whitehead, R. H., *873
Whitehorne-Cole, A. G., (45) 1035, (34) 1276
Whitehouse, B., (24) 1034
Whitehouse, H. B., (12) 778, (23) 1880
Whitelaw, T. H., (134) 276
Whiteside, G. S., (132) 1944
Whitham, L. B., (110) 1796
Whitla, W., (32) 1945
Whitman, A., (94) 1193
Whitman, R., 1676
Whitman, R. C., (28) 540
Whitmore, E. R., (141) 697
Whittemore, W., (50) 695
Whobley, C. H., (24) 1033, *1390
Whyte, G. D., (2) 942
Wichmann, R., (101) 550
Wichmann, S. E., (14) 1798
Widal, F., (27) 1618
Widen, J., (90) 1200
Widerøe, S., (169) 628
Widmark, E. M. P., (154) 380
Wieland, E., (75) 284
Wiene, (98) 284
Wiener, E., (55) 475, (104) 704, (80) 1537, (128) 1692
Wiener, J., (120) 858
Wiener, (63) 860
Wiersma, E. D., (132) 379
Wierzejewski, I., (67) 623
Wieting, (31) 700
Wiewiorowski, P., (57) 91, (70) 863, (36) 1533
Wigert, V., (38) 2171
Wiggers, C. J., (7) 538, *1305, *1380, *1485
Wiggs, L. B., (150) 87, (93) 858
Wigham, J. T., (15) 620
Wight, J. S., (59) 857, (96) 1109
Wight, O. B., (130) 1944
Wiki, B., (59) 946
Wilborts, A., (24) 1617
Wilbur, C. L., 2129
Wilbur, E. P., (75) 469
Wilbur, R. L., (55) 1685
Wilcke, (52) 1882
Wilcox, H. B., 2167
Wilcox, R. L., (11) 1111
Wilcox, S. F., (138) 1361, (119) 2020
Wildey, A. G., (21) 372, (10) 778
Wile, I. S., (96) 1529, (58) 2099
Wile, U. J., (85) 469, (46) 857, *979, (89) 1032, *1465
Wilensky, A. O., (94) 2020
Wiley, H. W., (72) 2099
Wilheimj, W., (42) 178
Wilkens, G. D., (136) 626
Wilkie, D. P. D., (7) 183
Will, A. A., (106) 469
Willard, L. M., (157) 697
Willcox, W. H., (32) 1276
Willets, D. G., (123) 1275
Willetts, E. W., (120) 1033
Willhite, F. V., (96) 1878
Williams, A. W., *138, (102) 179, (91, 105) 275, (15) 540, (83) 1108
Williams, B. G. R., (55) 774, (35) 857, (37) 1107
Williams, D. T., (128) 1616
Williams, E. H., (134) 1797
Williams, F., (21) 368
Williams, F. E., (49) 82
Williams, H. M., (95) 1453
Williams, J. R., (61) 1615
Williams, J. T., (12) 368, (2) 1526
Williams, J. W., *95, (134) 860
Williams, L., (30) 546
Williams, L. R., (41) 370
Williams, T. A., (151) 87, (81) 179, (96) 469, (18) 540, (7) 937, (46) 1031, (117, 122) 1453, (78) 1615, (94) 1685, (104) 1796, (145) 1879
Williams, W. R., (82) 696
Williams, W. W., (25) 1358
Williamson, C. S., (91) 941, (4) 1449
Williamson, R. T., (5) 1275
Williger, F., (91) 376
Willimczik, M., (63) 2024
Willis, A. M., (90) 858, (84) 2019
Willis, B. C., (153) 87
Willis, P. W., (134) 1944
Willis, W. M., (24) 545
Willmoth, A. D., (103) 85
Willour, L. S., (86) 858
Willson, H. L., (24) 1106
Willson, R. N., (129) 276
Wilmer, W. H., (84) 2099
Wilson, A., (3) 698, (7) 1033
Wilson, A. J., (16) 1196
Wilson, D. S., (82) 1108
Wilson, D. W., (24) 2096
Wilson, E. B., 685, 928, 1140, 1736
Wilson, F. N., (16) 2017
Wilson, H. A., (91) 1529
Wilson, H. P., (91) 1453
Wilson, J. E., (77) 1796
Wilson, J. G., (35) 272, (5) 538, *561, 1676
Wilson, L. B., (2) 271, *1560
Wilson, M. J., (89) 1616
Wilson, R., Jr., (111) 943
Wilson, S. A. K., (4) 942, (35) 1945
Wiltsie, S. F., (136) 1944
v. Wilucki, O., (51) 475
Winckelmann, (70) 1366
Winfield, F. B., (12) 860
Winholt, W., (36) 2096
Winn., J. F., (3) 1526
Winslow, C. E. A., (18) 1029
Winslow, R., (138) 1110
Winter, (63) 1144
Wintermute, G. P., (45) 1192
Winternitz, M. C., (43-45) 1527
Winthrep, G. J., *1303
Wise, F., (34) 1107, (46) 1449
Wiseley, A., (6) 2168
Wiseman, J. R., (142) 86, (124) 942
Wiseman, W. A., (43) 178
Wishart, M. B., (80) 1876
Wishnick, G. B., (39) 1364
Wister, O., (43) 1107
With, C., (81) 784
Wittek, A., (91) 1623
Wittich, F. W., (49) 1614
Wohl, M. G., (17) 1105
Wohlgemuth, J., (111) 279
Wolbach, S. B., (23) 540, (24) 939
Wolbarst, A. L., (96) 543, (107) 1878
Woldert, A., (129) 2021
Wolf, H. F., (132) 1110
Wolf, M., (47) 1275
Wolfe, C. T., (53) 371
Wolfer, J. A., (123) 858
Wolff, A., (59) 1456, (45) 1881
Wolff, H., (58) 760
Wolff, L., (155) 627
Wolff, L. S., (30) 552
Wolff, P., (36) 474
Wolff, W., (79) 624, (98) 1459
Wolff-Eisner, A., (85) 1280, (99) 1459
Wolfsohn, G., (44) 280
Wolfson, W. L., *823
Wolfstein, D. I., (60) 1685
Wollenberg, R., (109) 949
Wolterding, F. L., (75) 476
Wood, C. A., (102) 1453, (101) 1529, (142) 1797
Wood, E. J., (18) 177, (42) 695, (35) 1613
Wood, F. H., 1525
Wood, H., (154) 276
Wood, H. C., Jr., 463, *507, 1265
Wood, J. C., (141) 1361
Wood, W. G., (31) 540
Woodcock, H. deC., (14) 183
Woodhull, J. B., (93) 275
Woodruff, F. E., (26) 82
Woodruff, H. W., *1580
Woodruff, M. C., (70) 1452
Woodruff, S. R., (88) 1453
Woods, A. H., *1240
Woods, H., (14) 1940

Woodside, E. E., (51) 774
Woodson, J. M., (133) 2021
Woodward, H. L., (37) 2019
Woodward, R. M., (75) 1529
Woodward, W. C., (27) 694, **1607**
Woodyard, S. W., (134) 544
Woodyatt, R. T., (77) **941**, ***1811**, (9) **2095**
Woolford, J. S. B., **1523**
Woolley, P. G., (109) **1360**
Woolsey, W. C., (23) **1106**
Wootton, H. W., (122) 942
Worcester, M. J., (98) 777
Worrall, R., (26) 1934
Worth, C., (120) 276
Wortman, J. L. C., (113) 1952
Wrede, L., (36) 279
Wright, A. B., (115) 85
Wright, A. E., (4) 1616, (14) 1617, (10) 1686, (24) 1687, (11) 1879, (20) 1880, (9) 1944, (18) 1945
Wright, B. L., (74) 275, (92) **1109**
Wright, G. H., (11) 368
Wright, H. W., ***1155**, ***1577**, **(40)** 1941
Wright, J., **2157**
Wright, T. E., (145) **1194**
Wright, W. A., (128) 1194
v. Wrzesniowski, W., (35) 279
Wulff, O., (144) **379**, (135) **1040**
Wulker, G., (58) 2103
Wullyamoz, (46) 1688
Wunder, K., (94) 625
Wunsch, M., (33) 2102
Würdemann, H. V., (105) 1453, **(147)** 1944
Wyeth, J. A., **72**, ***1752**, (70) 2019
Wylie, C. B., (149) 1195
Wyman, M. H., (128) 1033
Wynkoop, E. J., (11) 773, (125) **942**, **1790**
Wynn, W. H., (6) 1275
Wynter, W. E., (16) 88
von Wyss, W. H., (1) **1195**

Y

Yakimoff, V. L., (149) 552
Yankauer, S., (64) 541
Yates, H. W., (9) 1526
Yates, J. L., ***1953**
Yearsley, M., (21) 1196, **(4)** 1685, (33) 1687, (17) 1945
Yen, F. C., ***1238**, ***1385**
Yeomans, F. C., (130) 1194, ***1301**
Yerkes, R. M., (45) 82
Yorke, W., (19) **372**
Youland, W. E., Jr., (81, 82) **696**
Young, B. T., (121) 372
Young, E. B., (42) 616
Young, E. L., Jr., (25) 1527
Young, F. B., (36) **82**
Young, G. B., ***487**
Young, H. B., (33) 1273
Young, H. C. T., (15) 1798
Young, H. H., (52) 1876
Young, J. F., (83) 1796
Young, W. J., (14) 372, (2) 1362

Z

Zaaijer, J. H., (52) **548**
Zaccarini, G., (39) 781, (81) **1199**
Zachariae, P., (103) **1118**
Zade, H., (61) 1948
Zade, M., (36) **474**
Zadek, J., (56) 2103
Zahn, A., (53) **90**
Zahorsky, J., (107) 179, (101) 1194, (10) 1874
Zalewski, E., (25) **1532**
Zander, E., (84) 784
Zangemeister, W., (22) **1532**
Zangger, H., (87) **947**
Zannini, W., (61) **475**
Zapffe, F. C., ***238**, (113) 858
Zarate, E., (30) **781**, (41) **2023**
Zeeman, W. P. C., (139) **552**
v. Zeissl, M., (78) 2024
Zeissler, J., (42) **1112**
Zemp, E. R., (143) 1362
Zengerle, M. A., (34) **474**
Zenner, P., (91) 1796
Zentmayer, W., (30, 35) **939**
Zerbini, C. V., (114) 1460
Zesas, D. G., (41) **1534**
Ziegler, S. L., (22) 82
Zieler, K., (80) 624
Zierath, W. F., (147) **620**
Zigler, M., (115) 619, (110) 1032
Zimmermann, C., (171) 182, (136) 697, (151) **1944**
Zimmern, A., (34) 1800
Zingher, A., (19) 540, (97) 1109
Zinn, W., (55) **862**, (125) **951**
Zinsser, H., (61) **1108**, (16) **2168**
Zondek, H., (64) 782, (65) 1620
Zuckermann, H., (95) 2027
Zueblin, E., (46) **82**, (39) 273, (40) 939, (78) 1360
Zulick, H. S., (76) 1193
Züllig, J., (45) 1364
Zupnik, L., (132) 1692
de Zwaan, J. P. K., (112) 1281
Zweifel, E., (55) **185**
Zweifel, P., (78) **1280**

INDEX TO PAGES

OF THE JOURNAL, ACCORDING TO WEEKLY ISSUES—VOLUME LXIV, JANUARY—JUNE, 1915

Pages	No.	
1- 94—	1.....	Jan. 2
95- 188—	2.....	Jan. 9
189- 286—	3.....	Jan. 16
287- 380—	4.....	Jan. 23
381- 476—	5.....	Jan. 30
477- 552—	6.....	Feb. 6
553- 628—	7.....	Feb. 13
629- 706—	8.....	Feb. 20
707- 784—	9.....	Feb. 27
785- 868—	10.....	March 6
869- 952—	11.....	March 13
953-1040—	12.....	March 20
1041-1118—	13.....	March 27
1119-1202—	14.....	April 3
1203-1282—	15.....	April 10
1283-1368—	16.....	April 17
1369-1460—	17.....	April 24
1461-1538—	18.....	May 1
1539-1624—	19.....	May 8
1625-1716—	20.....	May 15
1717-1804—	21.....	May 22
1805-1884—	22.....	May 29
1885-1952—	23.....	June 5
1953-2030—	24.....	June 12
2031-2106—	25.....	June 19
2107-2258—	26.....	June 26